NASA SP-7063 (06)

AD-A264 373



NASA SCIENTIFIC AND TECHNICAL PUBLICATIONS

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A CATALOG OF SPECIAL PUBLICATIONS, REFERENCE PUBLICATIONS, CONFERENCE PUBLICATIONS, AND TECHNICAL PAPERS 1991-1992

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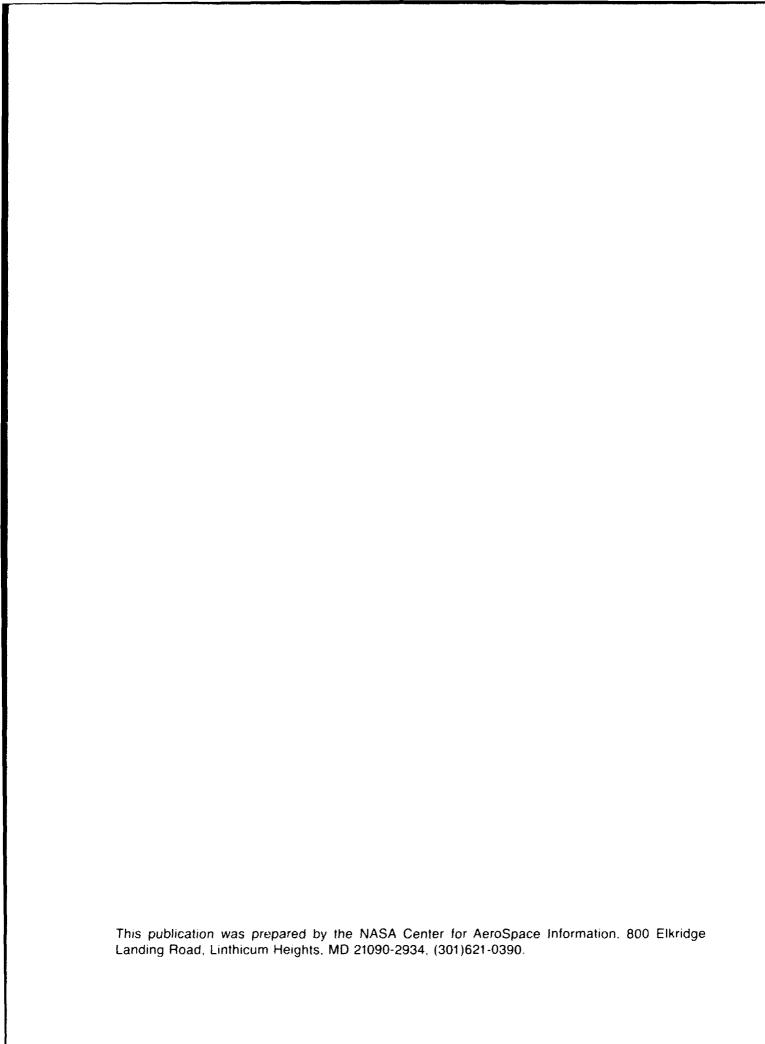
NASA SCIENTIFIC AND **TECHNICAL PUBLICATIONS**

A CATALOG OF SPECIAL PUBLICATIONS, REFERENCE PUBLICATIONS, CONFERENCE PUBLICATIONS, AND TECHNICAL PAPERS 1991-1992

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PREFACE

The pursuit of human knowledge through scientific research and technical endeavor has vastly expanded understanding of our world and the universe we live in. The contributions of NASA through scientific and technical research and development affect not only our understanding and use of aeronautics and space but also touch our daily lives. Geologists, oceanographers, meteorologists, archaeologists, aircraft engineers, aerospace decision makers, land-use planners, historians, and rescue teams all make use of the results of NASA's research. The findings of this research and development are published in NASA's scientific and technical report series as a part of NASA's mandate to disseminate the results of the agency's far-reaching work.

This catalog provides a cumulative list of NASA publications from four report series entered into the NASA Scientific and Technical Information Database during the accession years 1991 through 1992. For previous lists, see *Records of Achievement: NASA Special Publications*, NASA SP-470 (accession number N83-33792), *NASA Scientific and Technical Publications: A Catalog of Special Publications. Reference Publications, Conference Publications, and Technical Papers, 1977-1986*, NASA SP-7063(01) (accession number N87-30218). Supplements 02 through 05 of this catalog list NASA publications announced during 1987 through 1990.

Two monthly abstract journals cover all aspects of aeronautics and space research, NASA and non-NASA, nationally and worldwide. STAR (Scientific and Technical Aerospace Reports), focuses on scientific and technical reports, and IAA (International Aerospace Abstracts), covers the open literature. These are available by subscription from the NASA Center for AeroSpace Information and the American Institute of Aeronautics and Astronautics, Inc.

This catalog includes publicly available reports from four NASA report series: Special Publications (SPs), Reference Publications (RPs), Conference Publications (CPs), and Technical Papers (TPs). The scope of each series is defined as follows:

Special Publications are often concerned with subjects of substantial public interest. They report scientific and technical information derived from NASA programs for audiences of diverse technical backgrounds.

Reference Publications contain compilations of scientific and technical data of continuing reference value.

Conference Publications record the proceedings of scientific and technical symposia and other professional meetings sponsored or cosponsored by NASA.

Technical Papers present the results of significant research conducted by NASA scientists and engineers.

Presented here are citations for reports from each of these series. An explanation of the elements in a typical citation follows. Accession numbers (N numbers) at the end of a citation are separate citations to articles within the report. Please use *STAR* to locate these citations.

Also note that some bibliographies in the NASA SP-7000 series are issued periodically. This catalog lists only the last accessioned report in each bibliography series. The periodicity of each bibliography is as follows:

NASA SP-7011	Aerospace Medicine and Biology: A Continuing Bibliography with Indexes	Monthly plus annual cumulative index
NASA CP 7037	Aeronautical Engineering: A Continuing Bibliography with Indexes	Monthly plus annual cumulative index
NASA ŚP-7039	NASA Patent Abstracts Bibliography: A Continuing Bibliography Section 1: Abstracts; Section 2: Indexes	Semiannual

NASA SP-7085 Large Space Structures and Systems

in the Space Station Era: A Bibliography with Indexes

NASA SP-7500 Management:

A Bibliography for NASA Managers

Semiannual

Annual

Please note that the reports cited in this catalog are available for purchase from the NASA Center for AeroSpace information. They are also available at any Federal Regional Depository Library. Additional availability information including current CASI price schedules, can be found in the Appendix at the back of this publication.

NASA Scientific and Technical Publications 1991-1992

TABLE OF CONTENTS

AERONAUTICS For related information see also Astronautics.
01 AERONAUTICS (GENERAL)
02 AERODYNAMICS
03 AIR TRANSPORTATION AND SAFETY
04 AIRCRAFT COMMUNICATIONS AND NAVIGATION
05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE
06 AIRCRAFT INSTRUMENTATION
07 AIRCRAFT PROPULSION AND POWER
08 AIRCRAFT STABILITY AND CONTROL 1 Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also Controls are design, Testing and Performance.
09 RESEARCH AND SUPPORT FACILITIES (AIR)
ASTRONAUTICS For related information see also Aeronautics.
12 ASTRONAUTICS (GENERAL)
13 ASTRODYNAMICS
14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE) 1 Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also 09 Research and Support Facilities (Air).
15 LAUNCH VEHICLES AND SPACE VEHICLES 1 Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For relate information see also 20 Spacecraft Propulsion and Power.
16 SPACE TRANSPORTATION 1 Includes passenger and cargo space transportation, e.g., shuttle operations, and space rescue technique. For related information see also 03 Air Transportation and Safety and 18 Spacecraft Design, Testing and Performance. For space suits see 54 Man/System Technology and Life Support.
17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING 1 Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout. For related information see also 04 Aircraft Communications and Navigation and 32 Communications and Radar.

 $N.A.-n_{2}$ abstracts were assigned to this category for this issue.

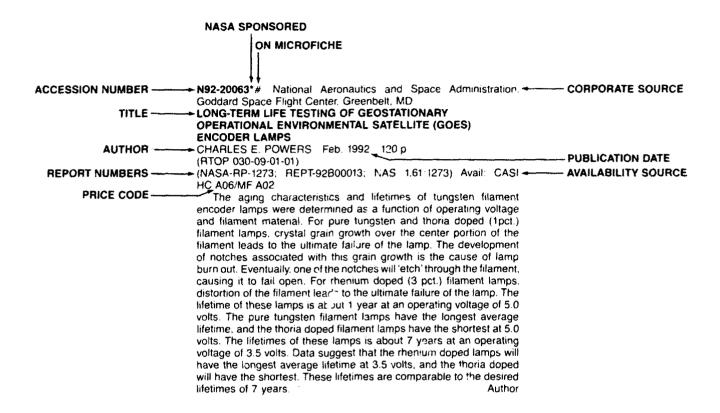
18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE 10 Includes satellites; space platforms; space stations: spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see 54 Man/System Technology and Life Support. For related information see also 05 Aircraft Design, Testing and Performance, 39 Structure Mechanics, and 16 Space Transportation.
19 SPACECRAFT INSTRUMENTATION 19 For related information see also 06 Aircraft Instrumentation and 35 Instrumentation and Photography.
20 SPACECRAFT PROPULSION AND POWER
CHEMISTRY AND MATERIALS
23 CHEMISTHY AND MATERIALS (GENERAL)
24 COMPOSITE MATERIALS 20 Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see 27 Nonmetallic Materials.
25 INORGANIC AND PHYSICAL CHEMISTRY
26 METALLIC MATERIALS
27 NONMETALLIC MATERIALS
28 PROPELLANTS AND FUELS
29 MATERIALS PROCESSING
ENGINEERING For related information see also Physics.
31 ENGINEERING (GENERAL)
32 COMMUNICATIONS AND RADAR Includes radar; land and global communications; communications theory; and optical communications. For related information see also 04 Aircraft Communications and Navigation and 17 Space Communications. Spacecraft Communications, Command and Tracking. For search and rescue see 03 Air Transportation and Safety, and 16 Space Transportation.
33 ELECTRONICS AND ELECTRICAL ENGINEERING 25 Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiatur zation; and integrated circuitry. For related information see also 60 Computer Operations and Hardware and 76 Solid-State Physics.
34 FLUID MECHANICS AND HEAT TRANSFER
35 INSTRUMENTATION AND PHOTOGRAPHY Includes remote sensors; measuring instruments and gauges; detectors: cameras and photographic supplies and holography. For aerial photography see 43 Earth Resources and Remote Sensing. For related information see also 06 Aircraft Instrumentation and 19 Spacecraft Instrumentation.
36 LASERS AND MASERS

37 MECHANICAL ENGINEERING
Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.
38 QUALITY ASSURANCE AND RELIABILITY
39 STRUCTURAL MECHANICS
Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see 05 Aircraft Design. Testing and Performance and 18 Spacecraft Design, Testing and Performance.
GEOSCIENCES For related information see also Space Sciences
42 GEOSCIENCES (GENERAL) 32
43 EARTH RESOURCES AND REMOTE SENSING 32 Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography For instrumentation see 35 Instrumentation and Photography.
44 ENERGY PRODUCTION AND CONVERSION
Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion and windpower. For related information see also 07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power, and 28 Propellants and Fuels.
45 ENVIRONMENT POLLUTION
46 GEOPHYSICS
Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see <i>93 Space Radiation</i> .
47 METEOROLOGY AND CLIMATOLOGY
48 OCEANOGRAPHY 36 Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also 43 Earth Resources and Remote Sensing.
LIFE SCIENCES
51 LIFE SCIENCES (GENERAL)
52 AEROSPACE MEDICINE
53 BEHAVIORAL SCIENCES
Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.
54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT 40 Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also 16 Space Transportation.
55 SPACE BIOLOGY
MATHEMATICAL AND COMPUTER SCIENCES
59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL) 41
60 COMPUTER OPERATIONS AND HARDWARE N.A Includes hardware for computer graphics, firmware, and data processing. For components see <i>33 Electronics and Electrical Engineering</i> .
61 COMPUTER PROGRAMMING AND SOFTWARE 42 Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.
62 COMPUTER SYSTEMS 42
Includes computer networks and special application computer systems

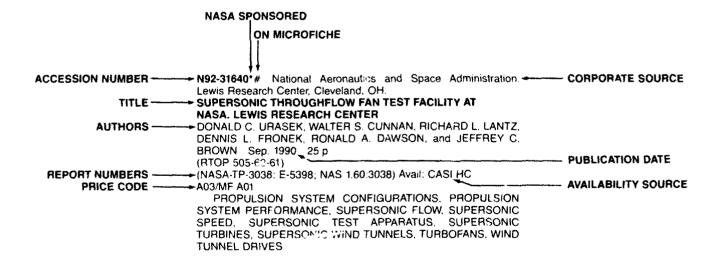
63 CYBERNETICS 43 Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also 54 Man/System Technology and Life Support.
64 NUMERICAL ANALYSIS
65 STATISTICS AND PROBABILITY 43 Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.
66 SYSTEMS ANALYSIS
67 THEORETICAL MATHEMATICS
PHYSICS For related information see also Engineering.
70 PHYSICS (GENERAL) 44 For precision time and time interval (PTTI) see 35 Instrumentation and Photography: for geophysics astrophysics or solar physics see 46 Geophysics, 90 Astrophysics. or 92 Solar Physics.
71 ACOUSTICS 44 Includes sound generation, transmission, and attenuation. For noise pollution see 45 Environment Pollution.
72 ATOMIC AND MOLECULAR PHYSICS
73 NUCLEAR AND HIGH-ENERGY PHYSICS 46 Includes elementary and nuclear particles; and reactor theory. For space radiation see 93 Space Radiation.
74 OPTICS
75 PLASMA PHYSICS
76 SOLID-STATE PHYSICS 46 Includes superconductivity. For related information see also 33 Electronics and Electrical Engineering and 36 Lasers and Masers
77 THERMODYNAMICS AND STATISTICAL PHYSICS N.A. Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also 25 Inorganic and Physical Chemistry and 34 Fluid Mechanics and Heat Transfer.
SOCIAL SCIENCES
80 SOCIAL SCIENCES (GENERAL) Includes educational matters. N.A.
81 ADMINISTRATION AND MANAGEMENT 46 Includes management planning and research.
82 DOCUMENTATION AND INFORMATION SCIENCE 47 Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see 61 Computer Programming and Software
83 ECONOMICS AND COST ANALYSIS N.A. Includes cost effectiveness studies.
84 LAW, POLITICAL SCIENCE AND SPACE POLICY N.A. Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.
85 URBAN TECHNOLOGY AND TRANSPORTATION

SPACE SCIENCES For related information see also Geosciences.
88 SPACE SCIENCES (GENERAL) 4
89 ASTRONOMY
90 ASTROPHYSICS
91 LUNAR AND PLANETARY EXPLORATION 4 Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see 1 Spacecraft Design, Testing and Performance.
92 SOLAR PHYSICS 5 Includes solar activity, solar flares, solar radiation and sunspots. For related information see 93 Space Radiation
93 SPACE RADIATION 5 Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation set 52 Aerospace Medicine. For theory see 73 Nuclear and High-Energy Physics.
GENERAL
Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent report too broad for categorization; histories or broad overviews of NASA programs.
99 GENERAL 5
SUBJECT INDEX
PERSONAL AUTHOR INDEX
REPORT NUMBER INDEX
APPENDIX APP-

TYPICAL CITATION AND ABSTRACT



TYPICAL CITATION AND SUBJECT TERMS



SCIENTIFIC AND TECHNICAL PUBLICATIONS

1991-1992

February 1993

01

AERONAUTICS (GENERAL)

N91-10002* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 256)

Sep. 1990 129 p

(NASA-SP-7037(256); NAS 1.21:7037(256)) Avail: CASI HC A07 This bibliography lists 426 reports, articles, and other documents introduced into the NASA scientific and technical information system in August 1990. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general

fluid dynamics.

N91-12589* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 257)

Oct. 1990 156 p

(NASA-SP-7037(257); NAS 1.21:7037(257)) Avail: CASI HC A08 This bibliography lists 560 reports, articles, and other documents

This bibliography lists 560 reports, articles, and other documents introduced into the NASA scientific and technical information system in September 1990. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

Author

N91-13399° National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 258)

Dec. 1988 167 p

(NASA-SP-7037(258); NAS 1.21:7037(258)) Avail: CASI HC A08

This bibliography lists 536 reports, articles, and other documents introduced into the NASA scientific and technical information system in October 1990. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

Author

N91-15978* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 260)

Jan. 1991 132 p

(NASA-SP-7037(260); NAS 1.21:7037(260)) Avail: CASI HC A07

This bibliography lists 405 reports, articles, and other documents introduced into the NASA scientific and technical information system in December, 1990. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft

components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

Author

N91-15979* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING
BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 259)
Dec. 1990 202 p

(NASA-SP-7037(259); NAS 1.21:7037(259)) Avail: CASI HC A10

This bibliography lists 774 reports, articles, and other documents introduced into the NASA scientific and technical information system in November, 1990. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

Author

N91-19024*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

JOINT UNIVERSITY PROGRAM FOR AIR TRANSPORTATION RESEARCH, 1989-1990

FREDERICK R. MORRELL, comp. Washington Dec. 1990 183 p Conference held in Athens, OH, 14-15 Jun. 1990; sponsored by NASA and FAA

(RTOP 505-66-01-02) (NASA-CP-3095; L-16848; NAS 1.55:3095) Avail: CASI HC A09/MF A02

AIR TRANSPORTATION, AIRCRAFT PERFORMANCE, AVIONICS, CONTROL THEORY, EXPERT SYSTEMS, GUIDANCE (MOTION), NAVIGATION, UNIVERSITY PROGRAM

N91-23073* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CUMULATIVE INDEX TO A CONTINUING BIBLIOGRAPHY (SUPPLEMENT 261)

Feb. 1991 562 p

(NASA-SP-7037(261); NAS 1.21:7037(261)) Avail: CASI HC A24
This publication is a cummulative index to the abstracts contained in Supplements 249 through 260 of Aeronautical Engineering: A Continuing Bibliography. The bibliographic series is compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA) and the National Aeronautics and Space Administration (NASA). Seven indexes are included — subject, personal author, corporate source, foreign technology, contract number, regirt number and accession number.

Author

N91-23074* National Aeronautics and Space Administration, Washington, DC

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 262)

Feb. 1991 142 p

(NASA-SP-7037(262); NAS 1.21:7037(262)) Avail: CASI HC A07 This bibliography lists 474 reports, articles, and other documents introduced into the NASA scientific and technical information system in Jan. 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems;

and theoretical and applied aspects of aerodynamics and general fluid dynamics

N91-24095* National Aeronautics and Space Administration, Wathington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 265)**

May 1991 152 p

(NASA-SP-7037(265); NAS 1.21:7037(265)) Avail: CASI HC A08 This bibliography lists 554 reports, articles, and other documents introduced into the NASA scientific and technical information system in Apr. 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines, aircraft components, equipment and systems, ground support systems, and theoretical and applied aspects of aerodynamics and general fluid dynamics.

N91-24096* National Aeronautics and Space Administration, Washington, DC

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 263)

Mar. 1991 146 p

(NASA-SP-7037(263); NAS 1 21 7037(263)) Avail. CASI HC A07 This bibliography lists 517 reports, articles, and other documents introduced into the NASA scientific and technical information system in Feb. 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems, ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics

N91-24097* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 264)

Apr. 1991 159 p

(NASA-SP-7037(264) NAS 1 21 7037(264)) Avail: CAS HC A08 This bibliography lists 558 reports, articles, and other documents introduced into the NASA scientific and technical information system in Mar 1991 Subject coverage includes: dusign, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics

N91-26113"# National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards, CA

DEVELOPMENT OF AN INTEGRATED AEROSERVOELASTIC ANALYSIS PROGRAM AND CORRELATION WITH TEST DATA K K. GUPTA, M J BRENNER, and L. S. VOELKER Washington May 1991 105 p

(RTOP 533-02-51)

(NASA-TP-3120, H-1543; NAS 1.60:3120) Avail: CASI HC

AEROELASTICITY, COMPUTER PROGRAMS, DYNAMIC RESPONSE. DYNAMIC STRUCTURAL ANALYSIS, FINITE ELEMENT METHOD, FLIGHT CONTROL, MATHEMATICAL MODELS, SERVOCONTROL, STRESS ANALYSIS

N91-271221 National Aeronautics and Space Administration. Washington, DC

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 266)

Jun 1991 175 p

(NASA-SP-7037(266), NAS 1,21 7037(266));

This bibliography lists 645 reports, articles, and other documents introduced into the NASA scientific and technical information system in May 1991. Subject coverage includes design, construction and testing of aircraft and aircraft engines, aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

N91-300771 National Aeronautics and Space Administration, Washington, DC

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 268)

Aug. 1991 131 p (NASA-SP-7037(268); NAS 1.21.7037(268)) Avail CASI HC A07 This bibliography lists 406 reports, articles, and other documents introduced into the NASA scientific and technical information system in July, 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines, aircraft components, equipment and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics. Author

N92-10001* National Aeronautics and Space Administration, Washington, DC

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 267)

Jul 1991 188 p

(NASA-SP-7037(267); NAS 1 21 7037(267)) Avail CASI HC A09 This bibliography lists 661 reports, articles, and other documents introduced into the NASA scientific and technical information system in June, 1991. Subject coverage includes design. construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems, ground support systems; theoretical and applied aspects of aerodynamics and general fluid dynamics, electrical engineering, aircraft control, remote sensing; computer sciences; nuclear physics; and social sciences

N92-10973* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 270)

Oct. 1991 176 p

(NASA-SP-7037(270); NAS 1.21:7037(270)) Avail: CASI HC A09 This bibliography lists 600 reports, articles, and other documents introduced into the NASA scientific and technical information system in September, 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines, aircraft components, equipment and systems, ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics. Author

N92-10974* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 269)**

(NASA-SP-7037(269); NAS 1.21:7037(269)) Avail: CASI HC A08 This bibliography lists 539 reports, articles, and other documents introduced into the NASA scientific and technical information system in August, 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems; ground support systems, and theoretical and applied aspects of aerodynamics and general fluid dynamics.

N92-14967* National Aeronautics and Space Administration. Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 271)

Nov. 1991 184 p

(NASA-SP-7037(271); NAS 1.21:7037(271)) Avail. CASI HC A09 This bibliography lists 666 reports, articles, and other documents introduced into the NASA scientific and technical information system in October, 1991. Subject coverage includes design, construction and testing of aircraft and aircraft engines; aircraft components, equipment and systems, ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics. Author

N92-17984*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

JOINT UNIVERSITY PROGRAM FOR AIR TRANSPORTATION RESEARCH, 1990-1991

FREDERICK R. MORRELL, comp. Washington Dec. 1991 183 p. Conference held in Athens, OH, 20-21 Jun. 1991, sponsored by NASA and FAA

(RTOP 505-64-52-01)

(NASA-CP-3131; L-17017; NAS 1.55:3131) Avail: CASI HC A09/MF A02

AIR TRANSPORTATION, AIRCRAFT SAFETY, NATIONAL AIRSPACE SYSTEM, NAVIGATION, UNIVERSITY PROGRAM

N92-21729* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 273)

Jan. 1992 219 p

(NASA-SP-7037(273); NAS 1.21:7037(273)) Avail: CASI HC A10 This bibliography lists 808 reports, articles, and other documents introduced into the NASA scientific and technical information system in Dec. 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment, and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

N92-21844* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 272)

Dec. 1991 192 p

(NASA-SP-7037(272); NAS 1.21:7037(272)) Avail: CASI HC A09 This bibliography lists 719 reports, articles, and other documents introduced into the NASA scientific and technical information system in November, 1991. Subject coverage includes: design, construction and testing of aircraft and aircraft engines; aircraft components, equipment, and systems; ground support systems; and theoretical and applied aspects of aerodynamics and general fluid dynamics.

N92-22505*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

THE HIGH RESOLUTION ACCELEROMETER PACKAGE (HIRAP) FLIGHT EXPERIMENT SUMMARY FOR THE FIRST 10 FLIGHTS

ROBERT C. BLANCHARD (Lockheed Engineering and Sciences Co., Hampton, VA.), K. T. LARMAN, and M. BARRETT (Lockheed Engineering and Sciences Co., Hampton, VA.) Apr. 1992 318 p

(RTOP 506-48-11-01)

(NASA-RP-1267; L-16900; NAS 1.61:1267) Avail: CASI HC A14/MF A03

The High Resolution Accelerometer Package (HIRAP) instrument is a triaxial, orthogonal system of gas damped accelerometers with a resolution of 1 x 10(exp -6) g (1 micro-g). The purpose of HiRAP is to measure the low frequency component of the total acceleration along the orbiter vehicle (OV) body axes while the OV descends through the rarefied flow flight regime. Two HiRAP instruments have flown on a total of 10 Space Transport System (STS) missions. The aerodynamic component of the acceleration measurements was separated from the total acceleration. Instrument bias and orbiter mechanical system acceleration effects were incorporated into one bulk bias. The bulk bias was subtracted from the acceleration measurements to produce aerodynamic descent data sets for all 10 flights. The aerodynamic acceleration data sets were input to an aerodynamic coefficient model. The aerodynamic acceleration data and coefficient model were used to estimate the atmospheric density for the altitude range of 140 to 60 km and a downrange distance of 600 km. For 8 of 10 flights results from this model agree with expected results. For the results that do not agree with expected results, a variety of error sources have been explored. Author

N92-27929* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 277)

Apr 1992 137 |

(NASA-SP-7037(277); NAS 1.21:7037(277)) Avail CASI HC A07. This bibliography lists 467 reports, articles, and other documents introduced into the NASA scientific and technical information system in Mar. 1992. Subject coverage includes: the engineering and theoretical aspects of design, construction, evaluation, testing, operation, and performance of aircraft (including aircraft engines), and associated aircraft components, equipment, and systems it also includes research and development in ground support systems, theoretical and applied aspects of aerodynamics, and general fluid dynamics.

Auttor

N92-28677* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 278)

May 1992 128 p

(NASA-SP-7037(278); NAS 1.21:7037(278)) Avail CASI HC A07. This bibliography lists 414 reports, articles, and other documents introduced into the NASA scientific and technical information system in April 1992. Author

N92-28679* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 275)

Feb. 1992 112 p

(NASA-SP-7037(275); NAS 1.21:7037(275)) Avail: CASI HC A06 This bibliography lists 379 reports, articles, and other documents introduced into the NASA scientific and technical information system in Jan. 1991. Author

N92-31456* National Aeronautics and Space Administration, Washington, DC.

AERONAUTICAL ENGINEERING: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 280)
Jul. 1992 172 p

(NASA-SP-7037(280), NAS 1.21.7037(280)) Avail. CASI HC A08. This bibliography lists 647 reports, articles, and other documents introduced into the NASA scientific and technical information system in June, 1991. Subject coverage includes: aerodynamics, air transportation safety, aircraft communication and navigation, aircraft design and performance, aircraft instrumentation, aircraft propulsion, aircraft stability and control, research facilities, astronautics, chemistry and materials, engineering, geosciences, computer sciences, physics, and social sciences.

02

AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces, and internal flow in ducts and turbomachinery.

N91-10007*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

TRANSONIC FLOW ANALYSIS FOR ROTORS. PART 3: THREE-DIMENSIONAL, QUASI-STEADY, EULER CALCULATION

I-CHUNG CHANG Jun. 1990 23 p

(RTOP 505-61-51)

(NASA-TP-2375; A-86374-PT-3, NAS 1.60:2375) Avail: CASI HC A03/MF A01

COMPUTER PROGRAMS, EULER EQUATIONS OF MOTION. FINITE VOLUME METHOD, LIFTING ROTORS, ROTOR AERODYNAMICS, TRANSONIC FLOW

N91-10839*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

NASA COMPUTATIONAL FLUID DYNAMICS CONFERENCE.

VOLUME 1: SESSIONS 1-6

475 p Conference held at Moffett Field, CA, 7-9 Mar. 1989 Original contains color illustrations (RTOP 505-60-01)

(NASA-CP-10038-VOL-1; A-89160-VOL-1; NAS

1.55:10038-VOL-1) Avail: CASI HC A20/MF A04; 25 functional color pages

COMPUTATIONAL FLUID DYNAMICS, COMPUTATIONAL GRIDS, CONFERENCES, GRID GENERATION (MATHEMATICS), MATHEMATICAL MODELS, SIMULATION, SUPERCOMPUTERS. **TURBULENCE MODELS**

National Aeronautics and Space Administration. N91-10868'# Ames Research Center, Moffett Field, CA.

NASA COMPUTATIONAL FLUID DYNAMICS CONFERENCE. **VOLUME 2: SESSIONS 7-12**

Sep. 1989 525 p Conference held at Moffett Field, CA, 7-9 Mar. 1989 Original contains color illustrations (RTOP 505-60-01)

(NASA-CP-10038-VOL-2; A-89160-VOL-2; NAS

1.55:10038-VOL-2) Avail: CASI HC A22/MF A04; 30 functional color pages

ALGORITHMS, COMPUTATIONAL FLUID DYNAMICS, CONFERENCES, HYPERSONICS, SHORT TAKEOFF AIRCRAFT. SPACECRAFT DESIGN, SUPERCOMPUTERS

National Aeronautics and Space Administration. N91-10902*# Langley Research Center, Hampton, VA.

PREDICTION OF EFFECTS OF WING CONTOUR MODIFICATIONS ON LOW-SPEED MAXIMUM LIFT AND TRANSONIC PERFORMANCE FOR THE EA-6B AIRCRAFT

DENNIS O. ALLISON and E. G. WAGGONER Washington Nov. 1990 48 p

(RTOP 505-61-21-03)

(NASA-TP-3046; L-16741; NAS 1.60:3046) Avail: CASI HC

COMPUTER PROGRAMS, CONTOURS, MANEUVERABILITY, PANEL METHOD (FLUID DYNAMICS), PERFORMANCE PREDICTION, TRANSONIC FLOW, WIND TUNNEL TESTS, WING **PROFILES**

N91-13401*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

NAVIER-STOKES AND EULER SOLUTIONS FOR LEE-SIDE FLOWS OVER SUPERSONIC DELTA WINGS. A CORRELATION WITH EXPERIMENT

S. NAOMI MCMILLIN (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), JAMES L. THOMAS (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and EARLL M. MURMAN (Massachusetts inst. of Tech., Cambridge.) Washington Dec. 1990 103 p Original contains color illustrations (RTOP 505-61-71-01)

(NASA-TP-3035; L-16751; NAS 1.60:3035) Avail: CASI HC A06/MF A02; 19 functional color pages

DELTA COMPUTER PROGRAMS, WINGS, EULER FLOW OF MOTION, DISTRIBUTION. NAVIER-STOKES EQUATION, SUPERSONIC FLOW

National Aeronautics and Space Administration. N91-13402*# Langley Research Center, Hampton, VA.

EFFECT OF LOCATION OF AFT-MOUNTED NACELLES ON THE LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF A HIGH-WING TRANSPORT AIRPLANE

WILLIAM K. ABEYOUNIS (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.) and JAMES C. PATTERSON, JR. (Vigyan Research Associates, Inc., Hampton, VA.) Washington Dec. 1990 98 p. (RTOP 505-62-41-05)

(NASA-TP-3047; L-16743; NAS 1 60:3047) Avail CASI HC A05/MF A02

AERODYNAMIC INTERFERENCE, AIRCRAFT DESIGN, ENGINE AIRFRAME INTEGRATION, TRANSPORT AIRCRAFT, WING NACELLE CONFIGURATIONS

N91-14316*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

PARAMETRIC STUDY OF AFTERBODY/NOZZLE DRAG ON TWIN TWO-DIMENSIONAL CONVERGENT-DIVERGENT NOZZLES AT MACH NUMBERS FROM 0.60 TO 1.20

ODIS C. PENDERGRAFT, JR., JAMES R. BURLEY, II, and E ANN BARE Oct. 1986 267 p

(RTOP 505-62-91-01)

(NASA-TP-2640; L-16158; NAS 1.60:2640) Avail: CASI HC A12/MF A03

AERODYNAMIC COEFFICIENTS, AFTERBODIES, CONVER-GENT-DIVERGENT NOZZLES, DRAG MEASUREMENT. **PARAMETERIZATION**

N91-16990*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A PARAMETRIC EXFERIMENTAL INVESTIGATION OF A SCRAMJET NOZZLE AT MACH 6 WITH FREON AND ARGON OR AIR USED FOR EXHAUST SIMULATION

JAMES M. CUBBAGE (Vigyan Research Associates, Inc., Hampton, VA.) and WILLIAM J. MONTA Washington Feb. 1991 106 p. (RTOP 763-01-31-24)

(NASA-TP-3048; L-16707; NAS 1.60:3048) Avail: CASI HC A06/MF A02

EXHAUST FLOW SIMULATION, EXHAUST GASES, EXHAUST NOZZLES, FLOW DISTRIBUTION, NOZZLE FLOW, SUPERSONIC COMBUSTION RAMJET ENGINES

N91-18030*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. DETAILED FLOW-FIELD MEASUREMENTS OVER A 75 DEG

SWEPT DELTA WING SCOTT O. KJELGAARD and WILLIAM L. SELLERS, III

Oct. 1990 45 p Original contains color Washington illustrations

(RTOP 505-60-11-03)

(NASA-TP-2997; L-16718; NAS 1.60:2997) Avail: CASI HC A03/MF A01; 16 functional color pages

FLOW DISTRIBUTION. DELTA WINGS VISUALIZATION, FREE FLOW, JET FLOW, SWEPT WINGS, **VORTICES**

N91-18031*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

PHYSICALLY WEIGHTED APPROXIMATIONS OF UNSTEADY AERODYNAMIC FORCES USING THE MINIMUM-STATE

MORDECHAY KARPEL (Technion - Israel Inst. of Tech., Haifa.) and SHERWOOD TIFFANY HOADLEY Washington Mar 1991 46 p

(RTOP 505-63-21-04)

(NASA-TP-3025; L-16491; NAS 1.60:3025) Avail: CASI HC

AERODYNAMIC COEFFICIENTS, COMPUTER PROGRAMS, LEAST SQUARES METHOD, MATRICES (MATHEMATICS). UNSTEADY AERODYNAMICS

N91-18032*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AN EXPLICIT UPWIND ALGORITHM FOR SOLVING THE PARABOLIZED NAVIER-STOKES EQUATIONS

JOHN J. KORTE Washington Feb. 1991 71 p. Original contains color illustrations (RTOP 506-80-11-01)

(NASA-TP-3050; L-16753; NAS 1.60:3050) Avail: CASI HC A04/MF A01; 1 functional color page

ALGORITHMS, FLOW DISTRIBUTION, GAS FLOW, HYPERSONIC FLOW, NAVIER-STOKES EQUATION, PARABOLIC DIFFERENTIAL EQUATIONS

N91-19042*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. EXPERIMENTAL INVESTIGATION OF POROUS-FLOOR

EXPERIMENTAL INVESTIGATION OF POHOUS-FLOOR EFFECTS ON CAVITY FLOW FIELDS AT SUPERSONIC SPEEDS

FLOYD J. WILCOX, JR. Washington Nov. 1990 105 p (RTOP 505-61-71-01)

(NASA-TP-3032; L-16711; NAS 1.60:3032) Avail: CASI HC A06/MF A02

CAVITIES, CAVITY FLOW, FLOW DISTRIBUTION, MACH NUMBER, POROSITY, SUPERSONIC SPEED, VENTS, WIND TUNNEL MODELS

N91-19057*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

THREE-COMPONENT LASER ANEMOMETER MEASUREMENT SYSTEMS

LOUIS J. GOLDMAN Washington Jan. 1991 20 p (NASA-TP-3080; E-5526; NAS 1.60:3080) Avail: CASI HC A03/MF A01

ANNULAR FLOW, LASER ANEMOMETERS, LASER DOPPLER VELOCIMETERS, LASER INTERFEROMETRY, THREE DIMENSIONAL FLOW, TURBOMACHINERY

N91-19058*# National Aeronautics and Space Administration.
Ames Research Center, Moffett Field, CA.

PANEL METHODS: AN INTRODUCTION

LARRY L. ERICKSON Washington Dec. 1990 64 p (RTOP 505-60-21)

(NASA-TP-2995; Á-89266; NAS 1.60:2995) Avail: CASI HC A04/MF A01

BOUNDARY CONDITIONS, COMPUTER PROGRAMS, INVISCID FLOW, PANEL METHOD (FLUID DYNAMICS), POTENTIAL FLOW, SUBSONIC SPEED, SUPERSONIC SPEED

N91-20043*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

WALL-INTERFERENCE ASSESSMENT AND CORRECTIONS FOR TRANSONIC NACA 0012 AIRFOIL DATA FROM VARIOUS WIND TUNNELS M.S. Thesis - George Washington Univ., 1988 LAWRENCE L. GREEN and PERRY A. NEWMAN Apr. 1991 63 p Presented at AIAA Meeting, Honolulu, Hi, 8-10 Jun. 1987 (RTOP 505-61-01-04)

(NASA-TP-3070; L-16721; NAS 1.60:3070; AIAA PAPER 87-1431) Avail: CASI HC A04/MF A01

AERODYNAMIC INTERFERENCE, AIRFOIL PROFILES, BOUNDARY LAYER FLOW, TRANSONIC FLOW, WALL FLOW, WIND TUNNEL WALLS

N91-21059*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STATIC THRUST-VECTORING PERFORMANCE OF NONAXISYMMETRIC CONVERGENT-DIVERGENT NOZZLES WITH POST-EXIT YAW VANES M.S. Thesis - George Washington Univ., Aug. 1988

ROBERT J. FOLEY (George Washington Univ., Washington, DC.) and ODIS C. PENDERGRAFT, JR. May 1991 81 p (RTOP 505-62-71-01)

(NASA-TP-3085; L-16784; NAS 1.60:3085) Avail: CASI HC A05/MF A01

CONVERGENT-DIVERGENT NOZZLES, JET VANES, NOZZLE GEOMETRY, STATIC TESTS, STATIC THRUST, THRUST VECTOR CONTROL, YAW

N91-21062*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

COMPUTATIONAL FLUID DYNAMICS SYMPOSIUM ON AEROPROPULSION

Washington Jan. 1991 687 p Symposium held in Cleveland, OH, 24-26 Apr. 1990 Supersedes NASA-CP-10045 Original

contains color illustrations

(NASA-CP-3078; E-5296; NASA-CP-10045; NAS 1.55:3078)

Avail: CASI HC A99/MF A06; 10 functional color pages

COMBUSTIBLE FLOW, COMBUSTION CHAMBERS, COMPUTATIONAL FLUID DYNAMICS, CONFERENCES, GRID GENERATION (MATHEMATICS), PROPULSION SYSTEM PERFORMANCE, TURBOMACHINERY, TURBULENCE MODELS

N91-22069*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AEROPROPULSIVE CHARACTERISTICS OF CANTED TWIN PITCH-VECTORING NOZZLES AT MACH 0.20 TO 1.20

FRANCIS J. CAPONE, MARY L. MASON, and GEORGE T. CARSON, JR. Washington May 1991 257 p (RTOP 505-62-71-01)

(NASA-TP-3060; L-16823; NAS 1.60:3060) Avail. CASI HC A12/MF A03

CONVERGENT-DIVERGENT NOZZLES, FLAPS (CONTROL SURFACES), FLOW DISTRIBUTION, NOZZLE GEOMETRY, PROPULSIVE EFFICIENCY, THRUST VECTOR CONTROL

N91-22070*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

NUMERICAL STUDY OF THE AERODYNAMIC EFFECTS OF USING SULFUR HEXAFLUORIDE AS A TEST GAS IN WIND TUNNELS

W. KYLE ANDERSON Washington Jan. 1991 26 p Previously announced in IAA as A90-37958

(RTOP 505-60-01-01)

(NASA-TP-3086; Ł-16849; NAS 1.60:3086) Avail: CASI HC A03/MF A01

AIRFOILS, INVISCID FLOW, SUBSONIC FLOW, SULFUR FLUORIDES, TRANSONIC FLOW, TURBULENT FLOW, WIND TUNNEL TESTS

N91-24132*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

TRANSONIC SYMPOSIUM: THEORY, APPLICATION AND EXPERIMENT, VOLUME 2

JEROME T. FOUGHNER, JR., comp. Apr. 1989 241 p. Symposium held in Hampton, VA, 19-21 Apr. 1988 (RTOP 505-60-11-01)

(NASA-CP-3020-VOL-2; L-16502-VOL-2; NAS 1.55:3020-VOL-2) Avail: CASI HC A11/MF A03

AERODYNAMIC CHARACTERISTICS, AIRCRAFT DESIGN, BODY-WING CONFIGURATIONS, COMPUTATIONAL FLUID DYNAMICS, FLIGHT TESTS. TRANSONIC FLOW, WIND TUNNEL TESTS

N91-25103*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

LOW-SPEED, POWERED GROUND EFFECTS OF A GENERIC, HYPERSONIC CONFIGURATION

GREGORY M. GATLIN 1990 62 p

(RTOP 763-01-31-22)

(NASA-TP-3092; L-16861; NAS 1.60:3092) Avail. CASI HC A04/MF A01

AERODYNAMIC CHARACTERISTICS, AIRCRAFT MODELS, GROUND EFFECT (AERODYNAMICS), HYPERSONIC AIRCRAFT, LOW SPEED, SCALE MODELS, WIND TUNNEL TESTS

N91-27124*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EFFECTS OF YAW ANGLE AND REYNOLDS NUMBER ON RECTANGULAR-BOX CAVITIES AT SUBSONIC AND TRANSONIC SPEEDS

E. B. PLENTOVICH, JULIO CHU, and M. B. TRACY Washington Jul. 1991 54 p

("TOP 505-68-91-12)

(NASA-TP-3099; L-16847; NAS 1.60:3099) Avail: CASI HC A04/MF A01

CAVITIES, FLOW DISTRIBUTION, HIGH REYNOLDS NUMBER.

MACH NUMBER, PRESSURE DISTRIBUTION, SUBSONIC FLOW, TRANSONIC FLOW, YAW

N91-27140°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
SHOCK WAVE INTERACTION WITH AN ARRUPT AREA

SHOCK WAVE INTERACTION WITH AN ABRUPT AREA CHANGE

MANUEL D. SALAS Washington Aug. 1991 16 p (RTOP 505-62-31-07)

(NASA-TP-3113; L-16878; NAS 1.60:3113) Avail: CASI HC A03/MF A01

COMPUTATIONAL FLUID DYNAMICS, EULER EQUATIONS OF MOTION, MATHEMATICAL MODELS, NUMERICAL ANALYSIS, SHOCK WAVE INTERACTION, SHOCK WAVES, UNIQUENESS THEOREM

N91-28136*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

EVALUATION OF A TECHNIQUE TO GENERATE ARTIFICIALLY THICKENED BOUNDARY LAYERS IN SUPERSONIC AND HYPERSONIC FLOWS

A. R. PORRO (National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.), W. R. HINGST (National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.), D. O. DAVIS (Washington Univ., Seattle.), and A. B. BLAIR, JR. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.) Washington Aug. 1991 28 p (RTOP 505-80-21)

(NASA-TP-3142; E-5660; NAS 1.60:3142) Avail: CASI HC A03/MF A01

BOUNDARY LAYERS, COMPRESSIBLE FLOW, HONEYCOMB STRUCTURES, HYPERSONIC FLOW, SUPERSONIC FLOW, TURBULENT BOUNDARY LAYER, WIND TUNNEL MODELS

N91-28143*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

LONGITUDINAL AERODYNAMIC CHARACTERISTICS OF A SUBSONIC, ENERGY-EFFICIENT TRANSPORT CONFIGURATION IN THE NATIONAL TRANSONIC FACILITY PETER F. JACOBS and BLAIR B. GLOSS Aug. 1989 70 p (RTOP 505-61-21-03)

(NASA-TP-2922; L-16569; NAS 1.60:2922) Avail: CASI HC A04/MF A01

AEROELASTICITY, BOUNDARY LAYER TRANSITION, LONGITUDINAL STABILITY, NONADIABATIC CONDITIONS, SUBSONIC SPEED, SUPERCRITICAL WINGS, WALL TEMPERATURE

N91-30098*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FULL-SCALE SEMISPAN TESTS OF A BUSINESS-JET WING WITH A NATURAL LAMINAR FLOW AIRFOIL

DAVID E. HAHNE and FRANK L. JORDAN, JR. Sep. 1991 52 p

(RTOP 505-61-41-01)

(NASA-TP-3133; L-16905; NAS 1.60:3133) Avail: CASI HC A04/MF A01

AIRFOIL PROFILES, FLAPPING, FULL SCALE TESTS, JET AIRCRAFT, LAMINAR FLOW AIRFOILS, LOW SPEED, SEMISPAN MODELS, WIND TUNNEL TESTS

N92-10005*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

MEASUREMENTS OF FORCES, MOMENTS, AND PRESSURES ON A GENERIC STORE SEPARATING FROM A BOX CAVITY AT SUPERSONIC SPEEDS

ROBERT L. STALLINGS, JR. (Lockheed Engineering and Sciences Co., Hampton, VA.), FLOYD J. WILCOX, JR., and DANA K. FORREST Sep. 1991 186 p (RTOP 505-68-91-12)

(NASA-TP-3110; L-16866; NAS 1.60:3110) Avail: CASI HC A09/MF A02

CAVITIES, EXTERNAL STORE SEPARATION, FLAT PLATES, FLOW DISTRIBUTION, MOMENTS, PRESSURE MEASUREMENT, SUPERSONIC SPEED

N92-10011*# National Aeronautics and Space Administration Ames Research Center, Moffett Field, CA.

TRANSONIC AND SUPERSONIC EULER COMPUTATIONS OF VORTEX-DOMINATED FLOW FIELDS ABOUT A GENERIC FIGHTER

AGA M. GOODSELL and JOHN E. MELTON Nov. 1991 44 p (RTOP 505-60-11)

(NASA-TP-3156; Á-90161; NAS 1.60:3156) Avail: CASI HC A03/MF A01

ANGLE OF ATTACK, BODY-WING CONFIGURATIONS, EULER EQUATIONS OF MOTION, FIGHTER AIRCRAFT, FLOW DISTRIBUTION, PRESSURE DISTRIBUTION

N92-10975*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STATIC INTERNAL PERFORMANCE OF VENTRAL AND REAR NOZZLE CONCEPTS FOR SHORT-TAKEOFF AND VERTICAL-LANDING AIRCRAFT

RICHARD J. RE and GEORGE T. CARSON, JR. Washington Sep. 1991 71 p (RTOP 505-62-30-01)

(NASA-TP-3103; L-16902; NAS 1.60:3103) Avail: CASI HC A04/MF A01

AIRCRAFT CONFIGURATIONS, EXHAUST NOZZLES, EXHAUST SYSTEMS, FIGHTER AIRCRAFT, PROPULSION SYSTEM CONFIGURATIONS, SHORT TAKEOFF AIRCRAFT, VERTICAL LANDING

N92-10981*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

NACA 0015 WING PRESSURE AND TRAILING VORTEX MEASUREMENTS

K, W. MCALISTER and R. K. TAKAHASHI Washington Nov. 1991 141 p

(RTOP 505-61-51)

(NASA-TP-3151; A-91056; NAS 1.60:3151;

AVSCOM-TR-91-A-003) Avail: CASI HC A07/MF A02

LOW SPEED, PRESSURE MEASUREMENT, SEMISPAN MODELS, TRAILING EDGES, VELOCITY MEASUREMENT, VORTICES, WING TIPS, WINGS

N92-12994*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

WIND TUNNEL INVESTIGATION OF THE INTERACTION AND BREAKDOWN CHARACTERISTICS OF SLENDER WING VORTICES AT SUBSONIC, TRANSONIC, AND SUPERSONIC SPEEDS

GARY E. ERICKSON Washington Nov. 1991 226 p (RTOP 505-68-71-03)

(NASA-TP-3114; L-16803; NAS 1.60:3114) Avail: CASI HC A11/MF A03

AERODYNAMIC CHARACTERISTICS, DELTA WINGS, FLOW DISTRIBUTION, LASERS, LEADING EDGES, SLENDER WINGS, VORTICES

N92-14968*# National Aeronautics and Space Administration Lewis Research Center, Cleveland, OH.

WIND TUNNEL INVESTIGATION OF VORTEX FLOWS ON F/A-18 CONFIGURATION AT SUBSONIC THROUGH TRANSONIC SPEED

GARY E. ERICKSON Washington Dec. 1991 166 p (RTOP 505-68-30-03)

(NASA-TP-3111; L-16799; NAS 1.60:3111) Avail: CASI HC A08/MF A02

F-18 AIRCRAFT, FOREBODIES, INTERACTIONAL AERODYNAMICS, LEADING EDGES, VORTEX BREAKDOWN, VORTICES, WIND TUNNEL TESTS, WINGS

N92-17131*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

TWO-DIMENSIONAL STABILITY OF LAMINAR FLAMESH. S. MUKUNDA and J. PHILIP DRUMMOND Washington Feb. 1992 30 p

(RTOP 763-01-21-16)

(NASA-TP-3131; L-16604; NAS 1.60:3131) Avail: CASI HC A03/MF A01

ACTIVATION ENERGY, COMBUSTION CHEMISTRY, FLAME STABILITY, LAMINAR FLOW, LEWIS NUMBERS, PREMIXED FLAMES

N92-19002*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
INSTALLATION EFFECTS OF WING-MOUNTED TURBOFAN NACELLE-PYLONS ON A 1/17-SCALE, TWIN-ENGINE, LOW-WING TRANSPORT MODEL

ODIS C. PENDERGRAFT, JR. (Aerospace Research Labs., Wright-Patterson AFB, OH.), ANTHONY M. INGRALDI (Aerospace Research Labs., Wright-Patterson AFB, OH.), RICHARD J. RE (Aerospace Research Labs., Wright-Patterson AFB, OH.), and TIMMY T. KARIYA (Vigyan Research Associates, Inc., Hampton, VA.) Mar. 1992 108 p (RTOP 535-03-10-01)

(NASA-TP-3168; L-16960; NAS 1.60:3168) Avail: CASI HC A06/MF A02

AERODYNAMIC INTERFERENCE, BYPASS RATIO, INTERACTIONAL AERODYNAMICS, SUPERCRITICAL WINGS, TURBOFAN ENGINES, TURBOFANS, WING NACELLE CONFIGURATIONS

N92-19175*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A WEAKLY NONLINEAR THEORY FOR WAVE-VORTEX INTERACTIONS IN CURVED CHANNEL FLOW

BART A. SINGER (High Technology Corp., Hampton, VA.), GORDON ERLEBACHER (Institute for Computer Applications in Science and Engineering, Hampton, VA.), and THOMAS A. ZANG Mar. 1992 26 p

(RTOP 505-59-50-01)

(NASA-TP-3158; L-16989; NAS 1.60:3158) Avail: CASI HC A03/MF A01

CHANNEL FLOW, FLUID DYNAMICS, NONLINEARITY, TOLLMIEN-SCHLICHTING WAVES, VORTICES

N92-20038*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

INFLUENCE OF AIRFOIL GEOMETRY ON DELTA WING LEADING-EDGE VORTICES AND VORTEX-INDUCED AERODYNAMICS AT SUPERSONIC SPEEDS

RICHARD M. WOOD (Lockheed Engineering and Sciences Co., Hampton, VA.), JAMES E. BYRD, and GARY F. WESSELMANN (Arnold Engineering Development Center, Arnold Air Force Station, TN.) Washington Feb. 1992 86 p (RTOP 505-61-71-01)

(NASA-TP-3105; L-16851; NAS 1.60:3105) Avail: CASI HC A05/MF A01

AIRFOIL PROFILES, DELTA WINGS, LEADING EDGES, SUPERSONIC SPEED, VORTICES, WIND TUNNEL TESTS

N92-20494*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

COMPARISON OF A TWO-DIMENSIONAL ADAPTIVE-WALL TECHNIQUE WITH ANALYTICAL WALL INTERFERENCE CORRECTION TECHNIQUES

RAYMOND E. MINECK Apr. 1992 73 p (RTOP 505-59-10-03)

(NASA-TP-3132; L-16911; NAS 1.60:3132) Avail: CASI HC

AERODYNAMIC INTERFERENCE, AIRFOILS, CORRECTION, MODELS, REYNOLDS NUMBER, TRANSONIC WIND TUNNELS, WALL FLOW, WIND TUNNEL WALLS

N92-20545*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

DIFFRACTED AND HEAD WAVES ASSOCIATED WITH WAVES ON NONSEPARABLE SURFACES

RAYMOND L. BARGER Apr. 1992 17 p (RTOP 505-59-53-01)

(NASA-TP-3169; L-16968; NAS 1.60:3169) Avail: CASI HC A03/MF A01

SURFACE WAVES, THIN WALLED SHELLS, WAVE DIFFRACTION

N92-23095*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STATIC PERFORMANCE OF A CRUCIFORM NOZZLE WITH MULTIAXIS THRUST-VECTORING AND REVERSE-THRUST CAPABILITIES

DAVID J. WING and SCOTT C. ASBURY Apr. 1992 82 p (RTOP 505-62-30-01)

(NASA-TP-3188; L-16958; NAS 1.60:3188) Avail: CASI HC A05/MF A01

CONVERGENT-DIVERGENT NOZZLES, PERFORMANCE TESTS, THRUST REVERSAL, THRUST VECTOR CONTROL, TWO DIMENSIONAL FLOW, WIND TUNNEL TESTS

N92-25133*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

COMPARISON OF JET PLUME SHAPE PREDICTIONS AND PLUME INFLUENCE ON SONIC BOOM SIGNATURE
RAYMOND L. BARGER and N. DUANE MELSON Mar. 199

RAYMOND L. BARGER and N. DUANE MELSON Mar. 1992 23 p

(RTOP 505-59-53-01)

(NASA-TP-3172; L-16970; NAS 1.60:3172) Avail: CASEHC A03/MF A01

PLUMES, PREDICTIONS, SHAPES, SIGNATURES, SONIC BOOMS

N92-25202*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

THE NATURAL FLOW WING-DESIGN CONCEPT

RICHARD M. WOOD and STEVEN X. S. BAUER May 1992 44 p. Previously announced in IAA as A89-49677 (RTOP 505-61-71-01)

(NASA-TP-3193; L-16837; NAS 1.60:3193) Avail: CASI HC A03/MF A01

AERODYNAMIC CHARACTERISTICS. AIRCRAFT CONFIGURATIONS, AIRCRAFT DESIGN, FLOW DISTRIBUTION, LEADING EDGES, SLENDER WINGS, SUPERSONIC FLOW, SWEPT WINGS

N92-25276*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

WIND-TUNNEL STATIC AND FREE-FLIGHT INVESTIGATION OF HIGH-ANGLE-OF-ATTACK STABILITY AND CONTROL CHARACTERISTICS OF A MODEL OF THE EA-6B AIRPLANE FRANK L. JORDAN, JR. and DAVID E. HAHNE May 1992 60 p

(RTOP 505-61-71-07)

(NASA-TP-3194; L-16813; NAS 1.60:3194) Avail: CASI HC A04/MF A01

AERODYNAMIC STABILITY, AIRCRAFT CONTROL, ANGLE OF ATTACK, DIRECTIONAL STABILITY DYNAMIC STABILITY, FREE FLIGHT, STATIC TESTS, WIND TUNNEL TESTS

N92-28477*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

CALCULATION OF UNSTEADY TRANSONIC FLOWS WITH MILD SEPARATION BY VISCOUS-INVISCID INTERACTION JAMES T. HOWLETT Jun. 1992 39 p

JAMES T. HOWLETT Jun. 1992 39 | (RTOP 509-10-02-03)

(NASA-TP-3197; L-16996; NAS 1.60:3197) Avail: CASI HC A03/MF A01

BOUNDARY LAYERS, FLOW DISTRIBUTION, FLOW

EQUATIONS, MATHEMATICAL MODELS. THREE DIMENSIONAL FLOW, TRANSONIC FLOW, UNSTEADY FLOW, VISCOUS FLOW

N92-28980"# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

LASER ANEMOMETER MEASUREMENTS AND COMPUTATIONS IN AN ANNULAR CASCADE OF HIGH TURNING CORE TURBINE VANES

LOUIS J. GOLDMAN and RICHARD G. SEASHOLTZ Jul. 1992

(RTOP 505-62-52)

(NASA-TP-3252; E-6354; NAS 1.60:3252) Avail: CASI HC A03/MF A01

ANNULAR FLOW, CASCADE FLOW, CRITICAL VELOCITY, LASER ANEMOMETERS. TURBINE BLADES. TURBOMACHIN-ERY, TURBULENCE, TURBULENT FLOW, VANES

N92-29625*# National Aeronautics and Space Administration. Ames Research Center, Moffatt Field, CA.

NASA WORKSHOP ON FUTURE DIRECTIONS IN SURFACE MODELING AND GRID GENERATION

W. R. VANDALSEM (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), R. E. SMITH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), Y. K. CHOO (National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.), L. D. BIRCKELBAW, and A. A. VOGEL Mar. 1992 24 p Workshop held at Moffett Field, CA, 5-7 Dec. 1989 (RTOP 505-59-00)

(NASA-CP-10092; A-92072; NAS 1.55:10092) Avail: CASI HC

COMPUTATIONAL FLUID DYNAMICS, CONFERENCES, GRID GENERATION (MATHEMATICS), NASA PROGRAMS

N92-30295*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

VALIDATION OF THREE-DIMENSIONAL INCOMPRESSIBLE SPATIAL DIRECT NUMERICAL SIMULATION CODE: A COMPARISON WITH LINEAR STABILITY AND PARABOLIC STABILITY EQUATION THEORIES FOR BOUNDARY-LAYER TRANSITION ON A FLAT PLATE

RONALD D. JOSLIN, CRAIG L. STREETT, and CHAU-LYAN CHANG (High Technology Corp., Hampton, VA.) Jul. 1992 49 p

(RTOP 505-59-50-01)

(NASA-TP-3205; L-17026; NAS 1.60:3205) Avail: CASI HC A03/MF A01

BOUNDARIES, BOUNDARY CONDITIONS, BOUNDARY LAYER TRANSITION, BOUNDARY LAYERS, COMPUTERIZED SIMULATION, FINITE DIFFERENCE THEORY, FLAT PLATES, FLUID DYNAMICS, FOURIER SERIES, INCOMPRESSIBLE FLOW, RUNGE-KUTTA METHOD, WAVE REFLECTION

N92-30394*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

TWÖ-DIMENSIONAL AERODYNAMIC CHARACTERISTICS OF SEVERAL POLYGON-SHAPED CROSS-SECTIONAL MODELS APPLICABLE TO HELICOPTER FUSELAGES

HENRY L. KELLEY, CYNTHIA A. CROWELL, and JOHN C. WILSON Aug. 1992 30 p

(DA PROJ. 1L2-36003-D-313; RTOP 505-59-36-01)

(NASA-TP-3233; L-16951; NAS 1.60:3233;

AVSCOM-TR-92-B-002) Avail: CASI HC A03/MF A01

AERODYNAMIC CHARACTERISTICS, AIRCRAFT MODELS, BLUNT BODIES, CROSS SECTIONS, FUSELAGES, HELICOPTERS, POLYGONS, WIND TUNNEL TESTS

N92-30747*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

TRAJECTORY FITTING IN FUNCTION SPACE WITH APPLICATION TO ANALYTIC MODELING OF SURFACES

RAYMOND L. BARGER Jul 1992 15 p (RTOP 505-59-53-01)

(NASA-TP-3232; L-17054; NAS 1.60:3232) Avail: CASI HC A03/MF A01

COMPUTATIONAL GRIDS, CURVE FITTING, FUNCTION SPACE, GRID GENERATION (MATHEMATICS), MATHEMATICAL MODELS, SMOOTHING, TRAJECTORIES

N92-30909*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

DIRECT SIMULATION OF HIGH-SPEED MIXING LAYERS

H. S. MUKUNDA, B. SEKAR (General Electric Co., Cincinnati, OH.), M. H. CARPENTER, J. PHILIP DRUMMOND, and AJAY KUMAR Jul. 1992 63 p

(RTOP 505-62-40-06)

(NASA-TP-3186; L-16929; NAS 1.60:3186) Avail: CASI HC A04/MF A01

COMPUTATIONAL GRIDS, COMPUTERIZED SIMULATION, CONVECTION, FLOW CHARACTERISTICS, FREE WING AIRCRAFT, MIXING LAYERS (FLUIDS), TURBULENCE

N92-31532*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

WIND TUNNEL AERODYNAMIC CHARACTERISTICS OF A TRANSPORT-TYPE AIRFOIL IN A SIMULATED HEAVY RAIN ENVIRONMENT

GAUDY M. BEZOS, R. EARL DUNHAM, JR., GARL L. GENTRY, JR., and W. EDWARD MELSON, JR. (National Aeronautics and Space Administration. Wallops Flight Facility, Wallops Island, VA.) Aug. 1992 68 p

(RTOP 505-68-01-02)

(NASA-TP-3184; L-16959; NAS 1.60:3184) Copyright Avail: CASI HC A04/MF A01

AERODYNAMIC CHARACTERISTICS, AIRFOILS, ENVIRONMENT EFFECTS, ENVIRONMENT SIMULATION, PERFORMANCE PREDICTION, RAIN, SCALE MODELS, WIND TUNNEL TESTS

N92-32480*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A METHOD FOR DESIGNING BLENDED WING-BODY CONFIGURATIONS FOR LOW WAVE DRAG RAYMOND L. BARGER Sep. 1992 19 p

(RTOP 505-59-53-01) (NASA-TP-3261; L-17095; NAS 1.60:3261) Avail: CASI HC

A03/MF A01
AERODYNAMIC CONFIGURATIONS, AIRCRAFT DESIGN.
BODY-WING CONFIGURATIONS, COMPUTATIONAL GRIDS,
DRAG REDUCTION, SUPERSONIC AIRCRAFT, WAVE DRAG

N92-33484*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

APPLICATIONS OF A DIRECT/ITERATIVE DESIGN METHOD TO COMPLEX TRANSONIC CONFIGURATIONS

LEIGH ANN SMITH and RICHARD L. CAMPBELL. Sep. 1992 36 p

(RTOP 505-59-10-03)

(NASA-TP-3234; L-16962; NAS 1.60:3234) Avail: CASI HC A03/MF A01

AERODYNAMIC DRAG, AIRCRAFT CONFIGURATIONS, AIRCRAFT DESIGN, DRAG REDUCTION, INDUCED DRAG, INTERFERENCE DRAG, NACELLES, TRANSPORT AIRCRAFT

N92-33625*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

A NOZZLE INTERNAL PERFORMANCE PREDICTION METHOD JOHN R. CARLSON Oct. 1992 50 p

(RTOP 505-62-30-01)

(NASA-TP-3221; L-16965; NAS 1.60:3221) Avail: CASI HC A03/MF A01

DISCHARGE COEFFICIENT, FLOW DISTRIBUTION, NAVIER-STOKES EQUATION, NOZZLE DESIGN, NOZZLE

EFFICIENCY, NOZZLE FLOW, NOZZLE THRUST COEFFICIENTS. PERFORMANCE PREDICTION, PITCHING MOMENTS, HOLLING MOMENTS, YAWING MOMENTS

National Aeronautics and Space Administration. N92-33656*# Langley Research Center, Hampton, VA.

SURVEY AND ANALYSIS OF RESEARCH ON SUPERSONIC DRAG-DUE-TO-LIFT MINIMIZATION WITH RECOMMENDATIONS FOR WING DESIGN

HARRY W. CARLSON (Lockheed Engineering and Sciences Co., Hampton, VA.) and MICHAEL J. MANN Sep. 1992 158 p. (RTOP 505-68-70-02)

(NASA-TP-3202; L-16963; NAS 1.60:3202) Avail: CASI HC A08/MF A02

AIRCRAFT DESIGN. BODY-WING CONFIGURATIONS. CAMBERED WINGS, SUPERSONIC AIRCRAFT, SUPERSONIC DRAG, SURVEYS, TWISTED WINGS, WINGS

N92-33706*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EFFECT OF AFTERBODY GEOMETRY ON AERODYNAMIC CHARACTERISTICS OF ISOLATED NONAXISYMMETRIC AFTERBODIES AT TRANSONIC MACH NUMBERS

LINDA S. BANGERT and GEORGE T. CARSON, JR. Sep. 1992

(RTOP 505-62-30-01)

(NASA-TP-3236; L-17034; NAS 1.60:3236) Avail: CASI HC A12/MF A03

AERODYNAMIC CHARACTERISTICS, AFTERBODIES. AIRCRAFT CONFIGURATIONS, AIRCRAFT MODELS. FIGHTER AIRCRAFT. INTERACTIONAL **BOATTAILS** AERODYNAMICS, WIND TUNNEL MODELS, WIND TUNNEL **TESTS**

N92-34193*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

PARAMETRIC INVESTIGATION OF

SINGLE-EXPANSION-RAMP NOZZLES AT MACH NUMBERS FROM 0.60 TO 1.20

FRANCIS J. CAPONE, RICHARD J. RE, and E. ANN BARE Oct. 1992 276 p

(RTOP 505-62-30-01)

(NASA-TP-3240; L-17067; NAS 1.60:3240) Avail: CASI HC

AERODYNAMIC COEFFICIENTS, AERODYNAMIC DRAG, CONVERGENT-DIVERGENT NOZZLES. CONVERGENT NOZZLES, MACH NUMBER, NOZZLE DESIGN, NOZZLE FLOW, PROPULSION SYSTEM PERFORMANCE, WIND TUNNEL TESTS

03

AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents

N91-10936*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AVIATION SAFETY/AUTOMATION PROGRAM CONFERENCE SAMUEL A. MORELLO, comp. Washington Oct. 1990 270 p. Conference held in Virginia Beach, VA, 11-12 Oct. 1989 (RTOP 505-67-21-07)

(NASA-CP-3090; L-16840; NAS 1.55:3090) Avail: CASI HC

AIR TRAFFIC CONTROL, AIRCRAFT SAFETY, AVIONICS, COCKPITS, CONFERENCES, HUMAN FACTORS ENGINEERING. MAN MACHINE SYSTEMS, MAN-COMPUTER INTERFACE, TEST **FACILITIES**

N91-11682*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA

AIRBORNE WIND SHEAR DETECTION AND WARNING SYSTEMS, SECOND COMBINED MANUFACTURERS' AND **TECHNOLOGISTS' CONFERENCE, PART 1**

AMOS A. SPADY, JR., comp., ROLAND L. BOWLES, comp., and HERBERT SCHLICKENMAIER, comp. (Federal Aviation Administration, Washington, DC.) Jul. 1990 347 p Conference held in Williamsburg, VA, 18-20 Oct. 1988 (RTOP 505-67-41-54)

(NASA-CP-10050-PT-1; NAS 1.55:10050-PT-1) Avail: CASI HC A15/MF A03

AIRBORNE EQUIPMENT, **AIRCRAFT** HAZARDS, CONFERENCES, DETECTION, WARNING SYSTEMS, WIND SHEAR

N91-11695*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AIRBORNE WIND SHEAR DETECTION AND WARNING SYSTEMS. SECOND COMBINED MANUFACTURERS' AND TECHNOLOGISTS' CONFERENCE, PART 2

AMOS A. SPADY, JR., comp., ROLAND L. BOWLES, comp., and HERBERT SCHLICKENMAIER, comp. (Federal Aviation Administration, Washington, DC.) Jul. 1990 452 p Conference held in Williamsburg, VA, 18-20 Oct. 1988 (RTOP 505-67-41-54)

(NASA-CP-10050-PT-2; NAS 1.55:10050-PT-2) Avail: CASI HC A20/MF A04

AIRCRAFT GUIDANCE, CONFERENCES, DETECTION, MICROBURSTS (METEOROLOGY), WARNING SYSTEMS, WIND SHEAR

N91-15141'# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA

REPORT OF THE WORKSHOP ON AVIATION SAFETY/AUTOMATION PROGRAM

SAMUEL A. MORELLO, ed. Oct. 1990 45 p. Workshop held. in Virginia Beach, VA, 10 Oct. 1989 (RTOP 505-64-13-22)

(NASA-CP-10054; NAS 1.55:10054) Avail: CASI HC A03/MF A01

AIR TRAFFIC CONTROL, AIR TRAFFIC CONTROLLERS (PERSONNEL), COMPUTER TECHNIQUES, CONFERENCES, FLIGHT MANAGEMENT SYSTEMS, WORKSTATIONS

N91-24140*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AIRBORNE WIND SHEAR DETECTION AND WARNING SYSTEMS: THIRD COMBINED MANUFACTURERS' AND **TECHNOLOGISTS' CONFERENCE, PART 2**

DAN D. VICROY, comp. (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), ROLAND BOWLES, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and SCHLICKENMAIER, comp. (Federal Administration, Washington, DC.) Jan. 1991 464 p Conference held in Hampton, VA, 16-18 Oct. 1990 Prepared in cooperation with Federal Aviation Administration, Washington, DC (RTOP 505-64-12)

(NASA-CP-10060-PT-2; NAS 1.55:10060-PT-2;

DOT/FAA/RD-91/2-PT-2) Avail: CASI HC A20/MF A04

AIRBORNE EQUIPMENT, CONFERENCES, DOPPLER RADAR, METEOROLOGICAL RADAR, MICROBURSTS (METEOROLOGY). OPTICAL RADAR, RADAR DETECTION, WARNING SYSTEMS, WIND SHEAR

N91-24166'# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AIRBORNE WIND SHEAR DETECTION AND WARNING SYSTEMS: THIRD COMBINED MANUFACTURERS' AND **TECHNOLOGISTS' CONFERENCE, PART 1**

DAN D. VICROY, comp. (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), ROLAND L. BOWLES, comp. (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), and HERBERT SCHLICKENMAIER, comp. (Federal Aviation Administration, Washington, DC.) Jan. 1991 490 p Conference held in Hampton, VA, 16-18 Oct. 1990 Prepared in cooperation with FAA, Washington, DC (RTOP 505-64-12)

(NASA-CP-10060-PT-1; NAS 1.55:10060-PT-1;

DOT/FAA/RD-91/2-PT-1) Avail: CASI HC A21/MF A04

AERODYNAMICS, AIRCRAFT PERFORMANCE, FLIGHT HAZARDS, FLIGHT MANAGEMENT SYSTEMS, FLIGHT TESTS, MICROBURSTS (METEOROLOGY), RAIN, WARNING SYSTEMS, WIND SHEAR

N91-70436*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

THE DEVELOPMENT OF THE NASA AVIATION SAFETY REPORTING SYSTEM

W. D. REYNARD, C. E. BILLINGS, E. S. CHEANEY, and R. HARDY Nov. 1986 192 p (RTOP 505-67-41)

(NASA-RP-1114; A-85127; NAS 1.61:1114) Avail: CASI HC A09

N92-10994*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A COMPARISON OF AIRBORNE WAKE VORTEX DETECTION MEASUREMENTS WITH VALUES PREDICTED FROM POTENTIAL THEORY

ERIC C. STEWART Washington Nov. 1991 38 p (RTOP 505-68-10-01)

(NASA-TP-3125; L-16899; NAS 1.60:3125) Avail: CASI HC A03/MF A01

ALGORITHMS, FLIGHT SAFETY, FLOW DISTRIBUTION, IN-FLIGHT MONITORING, NEAR WAKES, VORTICES, WAKES

N92-30395*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

LEWIS ICING RESEARCH TUNNEL TEST OF THE AERODYNAMIC EFFECTS OF AIRCRAFT GROUND DEICING/ANTI-ICING FLUIDS

L. JAMES RUNYAN (Boeing Commercial Airplane Co., Seattle, WA.), THOMAS A. ZIERTEN (Boeing Commercial Airplane Co., Seattle, WA.), EUGENE G. HILL (Boeing Commercial Airplane Co., Seattle, WA.), and HAROLD E. ADDY, JR. Aug. 1992 134 p (RTOP 505-68-11)

(NASA-TP-3238; E-5808; NAS 1.15:3238) Avail: CASI HC A07/MF A02

AERODYNAMIC CHARACTERISTICS, BOEING AIRCRAFT, DEICING, ICE FORMATION, NEWTONIAN FLUIDS, RHEOLOGY, WIND TUNNEL TESTS

04

AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

N92-21459*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FLIGHT DECK BENEFITS OF INTEGRATED DATA LINK COMMUNICATION

MARVIN C. WALLER Washington NASA. Langley Research Center Apr. 1992 49 p (RTOP 505-64-13-01)

(NASA-TP-3219; L-16845; NAS 1.60:3219) Avail: CASI HC A03/MF A01

AIR TRAFFIC CONTROL, AIRCRAFT COMMUNICATION, COMPUTERIZED SIMULATION, DATA LINKS, DATA

MANAGEMENT, DATA TRANSMISSION, DIGITAL DATA, GROUND-AIR-GROUND COMMUNICATION, PULSE COMMUNICATION

05

AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

A03/MF A01

N91-14323*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A METHOD FOR THE DESIGN OF TRANSONIC FLEXIBLE WINGS

LEIGH ANN SMITH and RICHARD L. CAMPBELL Washington Dec. 1990 41 p

(RTOP 505-61-21-03) (NASA-TP-3045; L-16762; NAS 1.60:3045) Avail: CASI HC

AERODYNAMIC LOADS, AEROELASTICITY, AIRCRAFT DESIGN, AIRFOIL PROFILES, FLEXIBLE WINGS, TRANSONIC SPEED

N91-17014*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STATIC FOOTPRINT LOCAL FORCES, AREAS, AND ASPECT RATIOS FOR THREE TYPE 7 AIRCRAFT TIRES

WILLIAM E. HOWELL (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), SHARON E. PEREZ, and W!LLIAM A. DGLER (Lockheed Engineering and Sciences Co., Hampton, VA. Washington Feb. 1991 95 p (RTOP 505-63-41-02)

(NASA-TP-2983; L-16521; NAS 1.60:2983) Avail: CASI HC A05/MF A01

AIRCRAFT TIRES, AREA, ASPECT RATIO, LOAD DISTRIBUTION (FORCES), VEHICULAR TRACKS

N91-19082*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

STATE ESTIMATION APPLICATIONS IN AIRCRAFT FLIGHT-DATA ANALYSIS: A USER'S MANUAL FOR SMACK

RALPH E. BACH, JR. Mar. 1991 134 p (RTOP 505-66-41)

(NASA-RP-1252; A-88203; NAS 1.61:1252) Avail: CASI HC A07/MF A02

The evolution in the use of state estimation is traced for the analysis of aircraft flight data. A unifying mathematical framework for state estimation is reviewed, and several examples are presented that illustrate a general approach for checking instrument accuracy and data consistency, and for estimating variables that are difficult to measure. Recent applications associated with research aircraft flight tests and airline turbulence upsets are described. A computer program for aircraft state estimation is discussed in some detail. This document is intended to serve as a user's manual for the program called SMACK (SMoothing for AirCraft Kinematics). The diversity of the applications described emphasizes the potential advantages in using SMACK for flight-data analysis.

N91-20071*# National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards, CA.

PROCEEDINGS OF THE X-15 FIRST FLIGHT 30TH ANNIVERSARY CELEBRATION

Weshington in 1991 174

Washington Jan. 1991 174 p Symposium held in Edwards, CA, 8 Jun. 1989 (RTOP 533-02-00)

(NASA-CP-3105; H-1622; NAS 1.55:3105) Avail: CASI HC A08/MF A02

AIRCRAFT DESIGN, CONFERENCES, HISTORIES, HYPERSONIC FLIGHT, NASA PROGRAMS, RESEARCH AND DEVELOPMENT, SPACE FLIGHT, X-15 AIRCRAFT

N91-21127*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. SPAN REDUCTION EFFECTS ON THE FLUTTER

CHARACTERISTICS OF ARROW-WING SUPERSONIC TRANSPORT CONFIGURATIONS

DONALD F. KELLER and ELLEN PARKER BULLOCK 26 Dec. 1990 55 p (RTOP 505-63-21)

(NASA-TP-3077; L-16807; NAS 1.60:3077) Avail: CASI HC A04/MF A01

AIRCRAFT CONFIGURATIONS, ARROW WINGS, DYNAMIC PRESSURE, FLUTTER ANALYSIS, SUPERSONIC TRANSPORTS, TRANSONIC FLUTTER, WIND TUNNEL TESTS, WING SPAN

N91-24199*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EVALUATION OF CLOUD DETECTION INSTRUMENTS AND PERFORMANCE OF LAMINAR-FLOW LEADING-EDGE TEST ARTICLES DURING NASA LEADING-EDGE FLIGHT-TEST PROGRAM

RICHARD E. DAVIS (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), DAL V. MADDALON (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), RICHARD D. WAGNER (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), DAVID F. FISHER (National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.), and RONALD YOUNG (National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards, CA.) Apr. 1989 58 p (RTOP 505-60-31-01)

(NASA-TP-2888; L-16509; NAS 1.60:2888) Avail: CASI HC A04/MF A01

AIRCRAFT DESIGN, AIRLINE OPERATIONS, BOUNDARY LAYER CONTROL, CLOUDS, DETECTION, FLIGHT SIMULATION, HAZE, LAMINAR BOUNDARY LAYER, LEADING EDGES

N91-24200*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
NASA-LARC FLIGHT-CRITICAL DIGITAL SYSTEMS

NASA-LARC FLIGHT-CRITICAL DIGITAL SYSTEMS TECHNOLOGY WORKSHOP

C. W. MEISSNER, JR., ed., J. R. DUNHAM, ed., and G. CRIM, ed. Apr. 1989 191 p Workshop held in Hampton, VA, 13-15 Dec. 1988 (RTOP 505-66-21-03)

(NASA-CP-10028; REPT-412U-3181-29; NAS 1.55:10028) Avail: CASI HC A09/MF A02

COMPUTER SYSTEMS DESIGN, DIGITAL SYSTEMS, FLIGHT CONTROL, QUALITY CONTROL, RELIABILITY ENGINEERING, SYSTEMS ENGINEERING, TECHNOLOGY ASSESSMENT

N92-13054*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

PLANFORM CURVATURE EFFECTS ON FLUTTER
CHARACTERISTICS OF A WING WITH 56 DEG
LEADING-EDGE SWEEP AND PANEL ASPECT RATIO OF 1.14
DONALD F. KELLER, MAYNARD C. SANDFORD, and THERESA
L. PINKERTON (Illinois Univ., Urbana.) Washington Sep. 1991
46 p

(RTOP 505-63-50-13)

(NASA-TP-3116; L-16858; NAS 1.60:3116) Avail: CASI HC A03/MF A01

AEROELASTICITY, CURVATURE, FLUTTER ANALYSIS, LEADING EDGE SWEEP, PLANFORMS, SWEPT WINGS, TRANSONIC FLUTTER, WIND TUNNEL MODELS, WIND TUNNEL TESTS

N92-33874*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

HIGH-SPEED RESEARCH: SONIC BOOM, VOLUME 1
CHRISTINE M. DARDEN, comp. Washington Oct. 1992

195 p Workshop held in Hampton, VA, 25-27 Feb. 1992 (RTOP 537-03-21-01)

(NASA-CP-3172; L-17145-VOL-1; NAS 1.55:3172) Avail: CASI HC A09/MF A03

ATMOSPHERIC EFFECTS, ATMOSPHERIC TURBULENCE, SHOCK WAVE PROPAGATION, SONIC BOOMS, TURBULENCE EFFECTS

06

AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

N91-17020*# National Aeronautics and Space Administration, Washington, DC.

SPACE TRANSPORTATION AVIONICS TECHNOLOGY
SYMPOSIUM. VOLUME 2: CONFERENCE PROCEEDINGS

Aug. 1990 742 p Symposium held in Williamsburg, VA, 7-9 Nov. 1989

(NASA-CP-3081-VOL-2; NAS 1.55:3081-VOL-2) Avail: CASI HC A99/MF A06

AVIONICS, COMPUTER PROGRAMMING, CONFERENCES, SOFTWARE ENGINEERING, SPACE TRANSPORTATION SYSTEM, SYSTEMS ENGINEERING, SYSTEMS INTEGRATION

N91-31143*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FLIGHT TESTS WITH A DATA LINK USED FOR AIR TRAFFIC CONTROL INFORMATION EXCHANGE

CHARLES E. KNOX and CHARLES H. SCANLON Sep. 1991 38 p

(RTOP 505-64-13-01)

(NASA-TP-3135; L-16936; NAS 1.60:3135) Avail: CASI HC A03/MF A01

AIR TRAFFIC CONTROL, CIVIL AVIATION, DATA LINKS, FLIGHT OPERATIONS, FLIGHT TESTS, RADIO FREQUENCIES, SAFETY FACTORS, SYSTEMS ENGINEERING, VOICE COMMUNICATION

N92-13065*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EFFECT OF SHORT-TERM EXPOSURE TO STEREOSCOPIC THREE-DIMENSIONAL FLIGHT DISPLAYS ON REAL-WORLD DEPTH PERCEPTION

ANTHONY M. BUSQUETS, RUSSELL V. PARRISH, and STEVEN P. WILLIAMS Washington Oct. 1991 26 p (DA PROJ. 1L1-61102-AH-45; RTOP 505-64-13-32)

(NASA-TP-3117; L-16897; NAS 1.60:3117;

AVSCOM-TR-91-B-014; AD-A242333) Avail: CASI HC A03/MF A01

DEPTH, DISPLAY DEVICES, FLIGHT INSTRUMENTS, HUMAN FACTORS ENGINEERING, PILOT PERFORMANCE, SPACE PERCEPTION, STEREOSCOPIC VISION

N92-20546*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

VENTURI AIR-JET VACUUM EJECTORS FOR HIGH-VOLUME ATMOSPHERIC SAMPLING ON AIRCRAFT PLATFORMS

GERALD F. HILL (Lockheed Engineering and Sciences Co., Hampton, VA.), GLEN W. SACHSE, DOUGLAS C. YOUNG, LARRY O. WADE (Lockheed Engineering and Sciences Co., Hampton, VA.), and LEWIS G. BURNEY Apr. 1992 38 p (RTOP 464-54-17-70)

(NASA-TP-3183; L-16937; NAS 1.60:3183) Avail: CASI HC A03/MF A01

07 AIRCRAFT PROPULSION AND POWER

AIR JETS, AIR SAMPLING, AIRBORNE EQUIPMENT, EJECTORS, ELECTRA AIRCRAFT, FLYING PLATFORMS, VACUUM PUMPS, VENTURI TUBES

07

AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft.

N91-20086*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

AEROPROPULSION 1991

Mar. 1991 574 p Conference held in Cleveland, OH, 20-21 Mar. 1991

(RTOP 505-62-00)

(NASA-CP-10063; E-5954; NAS 1.55:10063) Avail: CASI HC

A24/MF A04

AIR BREATHING ENGINES, AIRCRAFT DESIGN, AIRCRAFT ENGINES, COMPUTER PROGRAMS, CONTROL SYSTEMS DESIGN, FLUID MECHANICS, PROPULSION SYSTEM CONFIGURATIONS, STRUCTURAL DESIGN

N92-22510*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

AEROPROPULSION 1987

Washington Feb. 1990 498 p Conference held in Cleveland, OH, 17-19 Nov. 1987 Previously announced as N88-16697, N88-15785, N88-15790, N88-15794, N88-15800 and N88-15807 (RTOP 505-62-3B)

(NASA-CP-3049; E-3798; NAS 1.55:3049) Avail: CASI HC A21/MF A04

AIRCRAFT ENGINES, CONFERENCES, ENGINE DESIGN, PROPULSION SYSTEM CONFIGURATIONS, PROPULSION SYSTEM PERFORMANCE

N92-22863*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

DESIGN AND PERFORMANCE OF CONTROLLED-DIFFUSION STATOR COMPARED WITH ORIGINAL DOUBLE-CIRCULAR-ARC STATOR

THOMAS F. GELDER, JAMES F. SCHMIDT, KENNETH L. SUDER, and MICHAEL D. HATHAWAY (Army Aviation Systems Command, Cleveland, OH.) Mar. 1989 80 p Presented at the 1987 Aerospace Technology Conference and Exposition, Long Beach, CA, 5-8 Oct. 1987; sponsored by SAE

(DA PROJ. 1L1-61102-AH-45; RTOP 505-62-51)

(NASA-TP-2852; E-4195; NAS 1.60:2852; AVSCOM-TR-88-C-013; SAE-871783) Avail: CASI HC A05/MF A01

DIFFUSION, ENERGY CONVERSION EFFICIENCY, FAN BLADES, STATOR BLADES, STATORS

N92-25712*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

WORKSHOP ON GRID GENERATION AND RELATED AREAS

Apr. 1992 160 p Workshop held in Cleveland, OH, 14-15 Nov.
1991

(RTOP 505-62-52)

(NASA-CP-10089; E-6823; NAS 1.55:10089) Avail: CASI HC A08/MF A02

COMPUTATIONAL GRIDS, CONFERENCES, GRID GENERATION (MATHEMATICS), MULTIGRID METHODS, SURFACES

N92-25808*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

COMPUTATIONAL FLUID DYNAMICS

Feb. 1992 219 p Conference held at Moffett Field, CA, 12-14

Mar. 1991; sponsored by NASA. Ames Research Center Original contains color illustrations

(RTOP 505-62-52)

(NASA-CP-10078; E-6374; NAS 1.55:10078)

ALGORITHMS, COMPUTATIONAL FLUID DYNAMICS, FLOW DISTRIBUTION, MATHEMATICAL MODELS, NUMERICAL ANALYSIS, REAL GASES, RESEARCH AND DEVELOPMENT

08

AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

N91-10079*# National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards, CA. FLIGHT CHARACTERISTICS OF A MODIFIED SCHWEIZER SGS1-36 SAILPLANE AT LOW AND VERY HIGH ANGLES OF

ATTACKALEX G. SIM Jul. 1990 48 p
(RTOP 505-45-21)

(NASA-TP-3022; H-1563; NAS 1.60:3022) Avail: CASI HC A03/MF A01

AERODYNAMIC STABILITY, ANGLE OF ATTACK, FLIGHT CHARACTERISTICS, GLIDERS, PARAMETER IDENTIFICATION, PILOT PERFORMANCE

N91-20128*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A CONTROLS ENGINEERING APPROACH FOR ANALYZING AIRPLANE INPUT-OUTPUT CHARACTERISTICS

P. DOUGLAS ARBUCKLE Washington Apr. 1991 22 p (RTOP 505-66-71-03)

(NASA-TP-3072; L-16798; NAS 1.60:3072) Avail: CASI HC A03/MF A01

AIRCRAFT CONTROL, AIRCRAFT MODELS, CONTROL SYSTEMS DESIGN, MODAL RESPONSE

N91-25151*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

DEVELOPMENT OF AN ADAPTIVE FAILURE DETECTION AND IDENTIFICATION SYSTEM FOR DETECTING AIRCRAFT CONTROL ELEMENT FAILURES

W. THOMAS BUNDICK 1990 150 p Sponsored in part by Planning Research Corp., Hampton, VA (RTOP 505-66-41-04)

(NASA-TP-3051; L-16801; NAS 1.60:3051) Avail: CASI HC A07/MF A02

ADAPTIVE CONTROL, AIRCRAFT CONTROL, ATMOSPHERIC TURBULENCE, FAILURE ANALYSIS, FAULT TOLERANCE

N91-30154*# National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards, CA. APPLICATION AND FLIGHT TEST OF LINEARIZING

TRANSFORMATIONS USING MEASUREMENT FEEDBACK TO THE NONLINEAR CONTROL PROBLEM

ROBERT F. ANTONIEWICZ (National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Center, Edwards, CA.), EUGENE L. DUKE (National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Center, Edwards, CA.), and P. K. A. MENON (Georgia Inst. of Tech., Atlanta.) Sep. 1991 56 p

(RTOP 505-60-21)

(NASA-TP-3154; H-1629; NAS 1.60:3154) Avail: CASI HC A04/MF A01

AIRCRAFT CONTROL, CONTROL SYSTEMS DESIGN, CONTROLLERS, F-15 AIRCRAFT, FEEDBACK CONTROL, FLIGHT CONTROL, NONLINEAR SYSTEMS, TRAJECTORY CONTROL

N92-10027*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

ON THE FORMULATION OF A MINIMAL UNCERTAINTY MODEL FOR ROBUST CONTROL WITH STRUCTURED UNCERTAINTY

CHRISTINE M. BELCASTRO (Drexel Univ., Philadelphia, PA.), B.-C. CHANG, and ROBERT FISCHL (Drexel Univ., Philadelphia, PA.) Sep. 1991 34 p (RTOP 505-66-01-02)

(NASA-TP-3094; L-16893; NAS 1.60:3094) Avail: CASI HC A03/MF A01

CONTROL SYSTEMS DESIGN, FEEDBACK CONTROL, MATRICES (MATHEMATICS), ROBUSTNESS (MATHEMATICS), TRANSFER FUNCTIONS

N92-20195*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

CONTROL INTEGRATION CONCEPT FOR HYPERSONIC CRUISE-TURN MANEUVERS

DAVID L. RANEY and FREDERICK J. LALLMAN Feb. 1992 63 p

(RTOP 505-64-40-01)

(NASA-TP-3136; L-16928; NAS 1.60:3136) Avail: CASI HC A04/MF A01

AIRCRAFT MANEUVERS, AIRCRAFT PERFORMANCE, FLIGHT CONTROL, HYPERSONIC FLIGHT, HYPERSONIC VEHICLES

N92-21410*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

A METHODOLOGY FOR COMPUTING UNCERTAINTY BOUNDS OF MULTIVARIABLE SYSTEMS BASED ON SECTOR STABILITY THEORY CONCEPTS

MARTIN R. WASZAK Apr. 1992 42 p (RTOP 505-66-71-01)

(NASA-TP-3166; L-16846; NAS 1.60:3166) Avail: CASI HC A03/MF A01

CONTROL STABILITY, CONTROL THEORY, LINEAR SYSTEMS, MIMO (CONTROL SYSTEMS), MULTIVARIABLE CONTROL, SYSTEMS STABILITY

09

RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands.

N91-13461*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

CALIBRATION OF THE 13- BY 13-INCH ADAPTIVE WALL TEST SECTION FOR THE LANGLEY 0.3-METER TRANSONIC CRYOGENIC TUNNEL

RAYMOND E. MINECK and ACQUILLA S. HILL Washington Dec. 1990 111 p

(RTOP 505-61-21-03)

(NASA-TP-3049; L-16787; NAS 1.60:3049) Avail: CASI HC A06/MF A02

AIRFOIL PROFILES, CALIBRATING, FLEXIBILITY, FLOW DISTRIBUTION, WIND TUNNEL WALLS

N91-24211*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

ADVANCED HYPERVELOCITY AEROPHYSICS FACILITY WORKSHOP

ROBERT D. WITCOFSKI, comp. and WILLIAM I. SCALLION, comp. May 1989 170 p Workshop held in Hampton, VA, 10-11 May 1988

(RTOP 506-40-41-02)

(NASA-CP-10031; NAS 1.55:10031) Avail: CASI HC A08/MF A02

AEROTHERMODYNAMICS, COMPUTATIONAL FLUID DYNAMICS, HYPERSONIC AIRCRAFT, HYPERVELOCITY FLOW, TECHNOLOGY ASSESSMENT

N92-31640*# National Aeronautics and Space Administration Lewis Research Center, Cleveland, OH.

SUPERSONIC THROUGHFLOW FAN TEST FACILITY AT NASA. LEWIS RESEARCH CENTER

DONALD C. URASEK, WALTER S. CUNNAN, RICHARD L. LANTZ, DENNIS L. FRONEK, RONALD A. DAWSON, and JEFFREY C. BROWN Sep. 1990 25 p (RTOP 505-62-61)

(NASA-TP-3038; E-5398; NAS 1.60:3038) Avail: CASI HC A03/MF A01

PROPULSION SYSTEM CONFIGURATIONS, PROPULSION SYSTEM PERFORMANCE, SUPERSONIC FLOW, SUPERSONIC SPEED, SUPERSONIC TEST APPARATUS, SUPERSONIC TURBINES, SUPERSONIC WIND TUNNELS, TURBOFANS, WIND TUNNEL DRIVES

12

ASTRONAUTICS (GENERAL)

N91-20147*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

MANUAL CONTROL ASPECTS OF ORBITAL FLIGHT Abstracts Only

ADAM R. BRODY, ed. (Sterling Software, Palo Alto, CA.) and STEPHEN R. ELLIS, ed. Dec. 1990 14 p Workshop held at Moffett Field, CA, 22 Feb. 1990 (RTOP 506-47-31)

(NASA-CP-10056; A-90286; NAS 1.55:10056) Avail: CASI HC A03/MF A01

HUMAN FACTORS ENGINEERING, MANUAL CONTROL, ORBITAL MANEUVERS, SPACE STATIONS, SPACE TRANSPORTATION SYSTEM

N91-22139*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

VISION-21: SPACE TRAVEL FOR THE NEXT MILLENNIUM GEOFFREY A. LANDIS, ed. (Sverdrup Technology, Inc., Brook Park, OH.) Apr. 1990 600 p Symposium held in Cleveland, OH, 3-4 Apr. 1990

(NASA-CP-10059; E-5838; NAS 1.55:10059) Avail: CASI HC A25/MF A06

CONFERENCES, MISSION PLANNING, NUCLEAR PROPULSION, NUCLEAR REACTORS, PROJECT PLANNING. REACTOR DESIGN, REACTOR TECHNOLOGY, SPACE EXPLORATION, SPACECRAFT PROPULSION

13

ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

N91-10092*# National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL.
LONG-TERM ORBITAL LIFETIME PREDICTIONS

P. E. DREHER and A. T. LYONS Oct. 1990 26 p (NASA-TP-3058; NAS 1.60:3058) Avail: CASI HC A03/MF A01 BOILER PLATE, LONG DURATION EXPOSURE FACILITY. LONG TERM EFFECTS, ORBITAL LIFETIME, PERFORMANCE PREDICTION

N91-17073*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD FLIGHT MECHANICS/ESTIMATION THEORY SYMPOSIUM,

THOMAS STENGLE, ed. Dec. 1990 549 p Symposium held

in Greenbelt, MD, 22-24 May 1990 (NASA-CP-3102; REPT-91B00018; NAS 1.55:3102) Avail: CASI HC A23/MF A04

AERODYNAMICS, ATTITUDE (INCLINATION), CONFERENCES, ESTIMATES, FLIGHT MECHANICS, SATELLITE ATTI-TUDE CONTROL, SPACECRAFT ORBITS, SPACECRAFT TRA-**JECTORIES**

N92-14070*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

FLIGHT MECHANICS/ESTIMATION THEORY SYMPOSIUM.

THOMAS STENGLE, ed. Washington Oct. 1991 490 p Symposium held in Greenbelt, MD, 21-23 May 1991 (NASA-CP-3123; REPT-91B00133; NAS 1.55:3123) Avail: CASI HC A21/MF A04

ATTITUDE (INCLINATION), MISSION PLANNING, ORBIT CALCULATION, ORBIT DECAY

14

GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and

N92-12010*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX. CONTROL CENTER TECHNOLOGY CONFERENCE

PROCEEDINGS Aug. 1991 641 p. Conference held in Clear Lake, TX, 18-20 Jun. 1991 Sponsored in part by Houston Univ., Clear Lake, TX (NASA-CP-10081; NAS 1.55:10081) Avail: CASI HC A99/MF

ARCHITECTURE (COMPUTERS), COMMUNICATION NETWORKS, COMPUTER NETWORKS, CONFERENCES, FLIGHT CONTROL, GROUND BASED CONTROL, GROUND SUPPORT EQUIPMENT, GROUND SUPPORT SYSTEMS, INTEGRATED MISSION CONTROL CENTER

N92-30307°# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

THREE-DIMENSIONAL LASER WINDOW FORMATION VINCENT G. VERHOFF Jul. 1992 12 p (RTOP 505-62-84)

(NASA-RP-1280; E-6096; NAS 1.61:1280) Avail: CASI HC A03/MF A01

The NASA Lewis Research Center has developed and implemented a unique process for forming three-dimensional laser windows. These windows represent a major part of specialized, nonintrusive laser data acquisition systems used in a variety of compressor and turbine research test facilities. This report discusses in detail the aspects of three-dimensional laser window formation. It focuses on the unique methodology and the peculiarities associated with the formation of these windows. Included in this discussion are the design criteria, bonding mediums, and evaluation testing for three-dimensional laser windows. Author

15

LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles.

N91-18180*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
PARAMETRIC TRADE STUDIES ON A SHUTTLE 2 LAUNCH

SYSTEM ARCHITECTURE

DOUGLAS O. STANLEY, THEODORE A. TALAY, ROGER A. LEPSCH, W. DOUGLAS MORRIS, J. CHRISTOPHER NAFTEL. and CHRISTOPHER I. CRUZ Washington Mar. 1991 56 p (RTOP 506-40-61-01)

(NASA-TP-3059; L-16790; NAS 1.60:3059) Avail: CASI HC A04/MF A01

BOOSTER ROCKET ENGINES, LAUNCH CONFIGURATIONS, PROPULSION SYSTEM CONFIGURATIONS, SPACECRAFT CONFIGURATIONS, SPACECRAFT DESIGN, THRUST-WEIGHT RATIO

N91-20177*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

BENEFITS FROM SYNERGIES AND ADVANCED TECHNOLOGIES FOR AN ADVANCED-TECHNOLOGY SPACE STATION

L. BERNARD GARRETT (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), MELVIN J. FEREBEE, JR. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), MANUEL J. QUEIJO (Bionetics Corp., Hampton, VA.), and ANSEL J. BUTTERFIELD (Bionetics Corp., Hampton, VA.) Washington Apr. 1991 25 p. (RTOP 506-49-31-01)

(NASA-TP-3067; L-16616; NAS 1.60:3067) Avail: CASE HC A03/MF A01

ARTIFICIAL GRAVITY, SPACE STATIONS, SPACECRAFT CABINS. SPACECRAFT CONFIGURATIONS. **ANALYSIS**

National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

TECHNOLOGY FOR THE FUTURE: IN-SPACE TECHNOLOGY **EXPERIMENTS PROGRAM, PART 1**

ROGER A. BRECKENRIDGE, cump. (National Aeronautics and Space Administration. Langley Research Center. Hampton, VA.), LENWOOD G. CLARK, comp. (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), KELLI WILLSHIRE, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), SHERWIN M. BECK, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and LISA D. COLLIER, comp. (Computer Technology Associates, Inc., Hampton, VA.) Jun. 1991 304 p. Workshop held in Atlanta. GA, 6-9 Dec. 1988 (RTOP 506-44-41-01)

(NASA-CP-10073-PT-1; NAS 1.55:10073-PT-1) Avail: CASI HC A14/MF A03

CONFERENCES, INDUSTRIES, NASA SPACE PROGRAMS. SPACE STATIONS, UNIVERSITY PROGRAM

N91-27178*# National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.

TECHNOLOGY FOR THE FUTURE: IN-SPACE TECHNOLOGY **EXPERIMENTS PROGRAM, PART 2**

ROGER A. BRECKENRIDGE, comp. (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), LENWOOD G. CLARK, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), KELLI F. WILLSHIRE, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), SHERWIN M. BECK, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and LISA D. COLLIER, comp. (Computer Technology Associates, Inc., Hampton, VA.) Jun. 1991 304 p. Workshop held in Atlanta, GA, 6-9 Dec. 1988

(RTOP 506-44-41-01)

A04/MF A01

(NASA-CP-10073-PT-2; NAS 1.55:10073-PT-2) Avail: CASI HC A14/MF A03

CONFERENCES, INDUSTRIES, NASA SPACE PROGRAMS, SPACE STATIONS, UNIVERSITY PROGRAM

N91-29209*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL. RESOURCE ENVELOPE CONCEPTS FOR MISSION PLANNING K. Y. IBRAHIM (National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.), J. D. WEILER (National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.), and J. C. TOKAZ (Sverdrup Technology, Inc., Huntsville, AL.) Aug. 1991 74 p (NASA-TP-3139; M-666; NAS 1.60:3139) Avail: CASI HC

COST ANALYSIS, MISSION PLANNING, RESOURCES MANAGEMENT, SPACE STATION FREEDOM, SPACE STATIONS

N92-31251*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

GRAPHITE/EPOXY COMPOSITE ADAPTERS FOR THE SPACE SHUTTLE/CENTAUR VEHICLE

HAROLD J. KASPER and DARRYL S. RING (General Dynamics Corp., San Diego, CA.) Sep. 1990 34 p (NAS3-2290)

(NASA-TP-3014; E-4969; NAS 1.60:3014) Avail: CASI HC A03/MF A01

ADAPTERS, CENTAUR LAUNCH VEHICLE, COMPOSITE STRUCTURES, GRAPHITE-EPOXY COMPOSITES, LAUNCH VEHICLE CONFIGURATIONS, SPACE SHUTTLE PAYLOADS, SPACECRAFT CONSTRUCTION MATERIALS, SPACECRAFT DESIGN, SPACECRAFT STRUCTURES, STRUCTURAL ANALYSIS, UPPER STAGE ROCKET ENGINES

N92-32456*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

RELIABILITY TRAINING

VINCENT R. LALLI, ed., HENRY A. MALEC, ed. (Siemens Stromberg-Carlson, Albuquerque, NM.), RICHARD B. DILLARD (Martin Marietta Corp., Orlando, FL.), KAM L. WONG (Hughes Aircraft Co., El Segundo, CA.), FRANK J. BARBER, and FRANK J. BARINA Jun. 1992 225 p A reliability/probability device as supplement (RTOP 572-10-00)

(NASA-RP-1253; E-5456; NAS 1.61:1253) Avail: CASI HC A10/MF A03

Discussed here is failure physics, the study of how products, hardware, software, and systems fail and what can be done about it. The intent is to impart useful information, to extend the limits of production capability, and to assist in achieving low cost reliable products. A review of reliability for the years 1940 to 2000 is given. Next, a review of mathematics is given as well as a description of what elements contribute to product failures. Basic reliability theory and the disciplines that allow us to control and eliminate failures are elucidated.

46

SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques.

N91-27180*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
LAUNCH VEHICLE INTEGRATION OPTIONS FOR A LARGE EARTH SCIENCES GEOSTATIONARY PLATFORM CONCEPT JAMES L. GARRISON and LAWRENCE F. ROWELL Jul. 1991

(RTOP 506-49-21-02)

(NASA-TP-3083; L-16819; NAS 1.60:3083) Avail: CASEHC A03/MF A01

EARTH SCIENCES, GEOSYNCHRONOUS ORBITS, LAUNCH VEHICLES, ORBIT TRANSFER VEHICLES, ORBITAL ASSEMBLY, PAYLOAD INTEGRATION, SPACE ERECTABLE STRUCTURES, SPACE STATIONS, SPACECRAFT LAUNCHING, SYNCHRONOUS PLATFORMS

N92-15082*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

SEALS FLOW CODE DEVELOPMENT

Mar. 1991 172 p Workshop held in Cleveland, OH, 26 Mar. 1991

(RTOP 506-42-72)

(NASA-CP-10070; E-6219; NAS 1.55:10070) Avail: CASI HC A08/MF A02

COMPUTATIONAL FLUID DYNAMICS, MATHEMATICAL MODELS, PUMP SEALS

N92-20676*# National Aeronautics and Space Administration.
John F. Kennedy Space Center, Cocoa Beach, FL.
PAYLOAD BAY DOORS AND RADIATOR PANELS
FAMILIARIZATION HANDBOOK

JOHN A. GODBOLD 1992 92 p. LIMITED REPRODUCIBILITY: More than 20% of this document may be affected by color photographs Original contains color illustrations (NASA-TM-107793; NASA-TP-POD-2; NAS 1.15:107793)

AERODYNAMIC FORCES, BAYS (STRUCTURAL UNITS), CONTAMINATION, DOORS, FAIRINGS, PANELS, PAYLOADS, SPACE SHUTTLES, THERMAL PROTECTION

N92-22660*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

SPACE TRANSPORTATION MATERIALS AND STRUCTURES TECHNOLOGY WORKSHOP. VOLUME 1: EXECUTIVE SUMMARY

F. W. CAZIER, JR., comp. and J. E. GARDNER, comp. Apr. 1992 34 p Workshop held in Newport News, VA, 23-26 Sep. 1991

(RTOP 506-43-31-07)

(NASA-CP-3148-VOL-1; L-17098; NAS 1.55:3148-VOL-1) Avail: CASI HC A03/MF A01

GOVERNMENT/INDUSTRY RELATIONS, SPACE TRANSPORTATION, SPACECRAFT CONSTRUCTION MATERIALS, SPACECRAFT STRUCTURES, STRUCTURAL ENGINEERING

17

SPACE COMM., SPACECRAFT COMM., COMMAND & TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout.

N92-11039*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

SPACE NETWORK CONTROL CONFERENCE ON RESOURCE ALLOCATION CONCEPTS AND APPROACHES

KAREN L. MOE, ed. Sep. 1991 298 p. Conference held in Greenbelt, MD, 12-13 Dec. 1990

(NASA-CP-3124; REPT-91800130; NAS 1.55:3124) Avail: CASI HC A13/MF A03

ALGORITHMS, DATA LINKS, NETWORK CONTROL, RESOURCE ALLOCATION, SPACE COMMUNICATION

N92-19762*# National Aeronautics and Space Administration. Lewis Research Center. Cleveland, OH.

DESTINATION-DIRECTED, PACKET-SWITCHING
ARCHITECTURE FOR 30/20-GHZ FDMA/TDM
GEOSTATIONARY COMMUNICATIONS SATELLITE NETWORK
WILLIAM D. IVANCIC and MARY JO SHALKHAUSER Feb

1992 14 p Previously announced as N92-14204 (RTOP 650-60-21)

(NASA-TP-3201; É-6539; NAS 1.60:3201) Avail: CASI HC A03/MF A01

ARCHITECTURE (COMPUTERS), COMMUNICATION SATELLITES, FREQUENCY DIVISION MULTIPLEXING, PACKET SWITCHING, SATELLITE COMMUNICATION, SATELLITE NETWORKS, TIME DIVISION MULTIPLEXING

N92-22001*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

ADVANCED MODULATION AND CODING TECHNOLOGY CONFERENCE

Feb. 1992 324 p. Conference held in Cleveland, OH, 21-22 Jun. 1989

(RTOP 650-60-21) (NASA-CP-10053; E-5535; NAS 1.55:10053) Avail: CASI HC

CODING, CONFERENCES, FREQUENCY SHIFT KEYING, MODULATION, PHASE SHIFT KEYING, SATELLITE COMMUNICATION, SATELLITE INSTRUMENTS

N92-26667*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

SMALL EXPLORER DATA SYSTEM MIL-STD-1773 FIBER OPTIC BUS

MARK FLANEGAN and KEN LABEL Jun. 1992—30 p (NASA-TP-3227; NAS 1.60:3227; REPT-92B00041) Avail: CASI HC A03/MF A01

DATA SYSTEMS, EXPLORER SATELLITES, FIBER OPTICS, SMALL SCIENTIFIC SATELLITES, SPACECRAFT EQUIPMENT

N92-33933*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

THE EFFECTS OF VIDEO COMPRESSION ON ACCEPTABILITY OF IMAGES FOR MONITORING LIFE SCIENCES EXPERIMENTS

RICHARD F. HAINES (Foothill-De Anza Community Coll., Los Altos Hills, CA.) and SHERRY L. CHUANG Jul. 1992 18 p Presented at the IEEE Computer Society Data Compression Conference, Snowbird, UT, 24-26 Mar. 1992 (RTOP 476-14-03)

(NASA-TP-3239; Á-92040; NAS 1.60:3239) Avail: CASI HC A03/MF A01

ACCEPTABILITY, ALGORITHMS, BANDWIDTH, DATA

COMPRESSION, IMAGE RESOLUTION, LIFE SCIENCES. PULSE COMMUNICATION, VIDEO DATA

18

SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations, spacecraft systems and components such as thermal and environmental controls; and attitude controls.

N91-11041*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

THERMAL-DISTORTION ANALYSIS OF A SPACECRAFT BOX TRUSS IN GEOSTATIONARY ORBIT

PATRICK A. COSGROVE (Lockheed Engineering and Sciences Co., Hampton, VA.), JEFFERY T. FARMER, and LAWRENCE F. ROWELL Washington Nov. 1990 26 p. (RTOP 506-49-21-02)

(NASA-TP-3054; L-16828; NAS 1.60:3054) Avail CASi HC A03/MF A01

DISTORTION, GEOSYNCHRONOUS ORBITS, HEAT FLUX, POINTING CONTROL SYSTEMS, SYNCHRONOUS PLATFORMS, THEHMAL ANALYSIS, TRUSSES

N91-17114*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

ON-ORBIT STRUCTURAL DYNAMIC PERFORMANCE OF A 15-METER MICROWAVE RADIOMETER ANTENNA

DEBORAH M. WAHLS (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.), JEFFERY T. FARMER (National Aeronautics and Space Administration Langley Research Center, Hampton, VA.), and DAVID W. SLEIGHT (Illinois Univ., Urbana.) Washington Dec. 1990 44 p (RTOP 506-49-21-02)

(NASA-TP-3041; L-16795; NAS 1.60:3041) Avail: CASI HC A03/MF A01

ANTENNA DESIGN, COMPUTER AIDED DESIGN, GEOSYNCHRONOUS ORBITS, MICROWAVE RADIOMETERS, MODAL RESPONSE, STRUCTURAL DESIGN, SYNCHRONOUS PLATFORMS

N91-18186*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

THE 5TH ANNUAL NASA SPACECRAFT CONTROL LABORATORY EXPERIMENT (SCOLE) WORKSHOP, PART 1 LAWRENCE W. TAYLOR. JR., comp Dec. 1990 383 p Workshop held in Lake Arrowhead, CA, 31 Oct. 1988 (RTOP 506-46-11-01)

(NASA-CP-10057-PT-1; NAS 1.55:10057-PT-1) Avail: CASI HC A17/MF A03

CONTROL SYSTEMS DESIGN, LARGE SPACE STRUCTURES, MATHEMATICAL MODELS, SPACECRAFT CONTROL

N91-18189*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

SECOND CONFERENCE ON NDE FOR AEROSPACE REQUIREMENTS

KENNETH W. WOODIS, comp. (National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.), CRAIG C. BRYSON, comp. (National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.), and GARY L. WORKMAN, comp. (Alabama Univ., Huntsville.) Washington Dec. 1990 276 p Conference held in Huntsville, AL., 22-24 Aug. 1989; sponsored by NASA. Marshall Space Flight Center and Alabama Univ.

(NASA-CP-3091; M-646; NAS 1.55:3091) Avail: CASI HC A13/MF A03

ACOUSTIC MEASUREMENT, AEROSPACE SYSTEMS,

COMPUTER AIDED TOMOGRAPHY, CONFERENCES, INSPECTION, NONDESTRUCTIVE TESTS, ULTRASONIC FLAW DETECTION

N91-18199* National Aeronautics and Space Administration, Washington, DC.

LARGE SPACE STRUCTURES AND SYSTEMS IN THE SPACE STATION ERA: A BIBLIOGRAPHY WITH INDEXES

JOHN J. FERRAINOLO, ed. (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.) Nov. 1990 350 p

(NASA-SP-7085(01); NAS 1.21:7085(01)) Avail: CASt HC A15

Bibliographies and abstracts are listed for 1372 reports, articles, and other documents introduced into the NASA scientific and technical information system between January 1, 1990 and June 30, 1990. Its purpose is to provide helpful information to the researcher, manager, and designer in technology development and mission design according to system, interactive analysis and design, structural and thermal analysis and design, structural concepts and control systems, electronics, advanced materials, assembly concepts, propulsion, and solar power satellite systems. Author

N91-19122*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

THE 5TH ANNUAL NASA SPACECRAF I CONTROL LABORATORY EXPERIMENT (SCOLE) WORKSHOP, PART 2 LAWRENCE W. TAYLOR, JR., comp. Dec. 1990 369 p Workshop held in Lake Arrowhead, CA, 31 Oct. 1988 (RTOP 506-46-11-01)

(NASA-CP-10057-PT-2; NAS 1.55:10057-PT-2) Avail: CASI HC A16/MF A03

CONFERENCES, CONTROL SYSTEMS DESIGN, DYNAMIC STRUCTURAL ANALYSIS, FLEXIBLE SPACECRAFT, LARGE SPACE STRUCTURES, MATHEMATICAL MODELS, SPACECRAFT CONTROL

N91-19126*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

SIXTEENTH SPACE SIMULATION CONFERENCE CONFIRMING SPACEWORTHINESS INTO THE NEXT MILLENNIUM

JOSEPH L. STECHER, III, ed. Washington Nov. 1990 464 p Symposium held in Albuquerque, NM, 5-8 Nov. 1990; sponsored by NASA, Inst. of Ervironmental Sciences, AIAA, and the American Society for Testing and Materials

(NASA-CP-3096; ŘEPT-90B00146; NAS 1.55:3096) Avail: CASI HC A20/MF A04

CONFERENCES, SPACE ENVIRONMENT SIMULATION, SPACECRAFT CONTAMINATION, THERMAL SIMULATION

N91-21185*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

A NEW FABRICATION METHOD FOR PRECISION ANTENNA REFLECTORS FOR SPACE FLIGHT AND GROUND TEST

G. RICHARD SHARP, JOYCE S. WANHAINEN, and DEAN A. KETELSEN Washington Mar. 1991 19 p Presented at the 13th International Communications Satellite Systems Conference, Los Angeles, CA, 11-15 Mar. 1990; sponsored by AIAA Previously announced in IAA as A90-25627 Original contains color illustrations

(RTOP 650-60-20)

(NASA-TP-3078; E-5176; NAS 1.60:3078) Avail: CASI HC A03/MF A01; 2 functional color pages

ANTENNA DESIGN, COMMUNICATION SATELLITES, DESIGN ANALYSIS, FABRICATION, REFLECTOR ANTENNAS, REFLECTORS, SATELLITE ANTENNAS

N91-21188*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AEROSPACE APPLICATIONS OF MAGNETIC SUSPENSION TECHNOLOGY, PART 1

NELSON J. GROOM, ed. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.) and COLIN P. BRITCHER, ed. (Old Dominion Univ., Norfolk, VA.) Mar.

1991 377 p. Workshop held in Hampton, VA, 25-27 Sep. 1990 (RTOP 590-14-11-02)

(NASA-CP-10066-PT-1; NAS 1.55:10066-PT-1) Avail CASI HC A17/MF A03

AEROSPACE ENGINEERING, MAGNETIC SUSPENSION. REDUCED GRAVITY, SUPERCONDUCTIVITY, TECHNOLOGY UTILIZATION

N91-21203*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AEROSPACE APPLICATIONS OF MAGNETIC SUSPENSION TECHNOLOGY, PART 2

NELSON J. GROOM, ed. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA) and COLIN P. BRITCHER, ed. (Old Dominion Univ., Norfolk, VA.) Mar 1991 394 p Workshop held in Hampton, VA, 25-27 Sep 1990 (RTOP 590-14-11-02)

(NASA-CP-10066-PT-2; NAS 1 55:10066-PT-2) Avail: CASi HC A17/MF A04

CONTROL SYSTEMS DESIGN, CONTROL THEORY, MAGNETIC BEARINGS, MAGNETIC SUSPENSION, POINTING CONTROL SYSTEMS, SUPERCONDUCTIVITY

N91-22302*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

RIGID-BODY-CONTROL SUBSYSTEM SIZING FOR AN EARTH SCIENCE GEOSTATIONARY PLATFORM

A. DON SCOTT (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), JAMES A. DURICY (George Washington Univ., Hampton, VA.), and CHERYL C JACKSON (Flight Mechanics and Control, Inc., Hampton, VA.) Washington May 1991 22 p (RTOP 506-49-21-02)

(NASA-TP-3087; L-16796; NAS 1.60:3087) Avail: CASI HC A03/MF A01

CONTROL SYSTEMS DESIGN, EARTH SCIENCES, POINTING CONTROL SYSTEMS, REACTION WHEELS, RIGID STRUCTURES, SATELLITE ATTITUDE CONTROL, SPACECRAFT CONTROL, SYNCHRONOUS PLATFORMS

N91-22307°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FOURTH NASA WORKSHOP ON COMPUTATIONAL CONTROL OF FLEXIBLE AEROSPACE SYSTEMS, PART 1

LAWRENCE W. TAYLOR, JR., comp. Mar. 1991 457 p Workshop held in Williamsburg, VA, 11-13 Jul. 1990 (RTOP 506-46-11-01)

(NASA-CP-10065-PT-1; NAS 1.55:10065-PT-1) Avail: CASI HC A20/MF A04

AEROSPACE SYSTEMS, CONTROL SYSTEMS DESIGN, CONTROL THEORY, FLEXIBLE SPACECRAFT, ROBOT CONTROL, SPACECRAFT CONTROL

N91-22331*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FOURTH NASA WORKSHOP ON COMPUTATIONAL CONTROL OF FLEXIBLE AEROSPACE SYSTEMS, PART 2

LAWRENCE W. TAYLOR, JR., comp. Mar. 1991 464 p Workshop held in Williamsburg, VA, 11-13 Jul. 1990 (RTOP 506-46-11-01)

(NASA-CP-10065-PT-2; NAS 1.55:10065-PT-2) Avail: CASI HC A20/MF A04

AEROSPACE SYSTEMS, AIRCRAFT CONTROL, CONFERENCES, DYNAMIC STRUCTURAL ANALYSIS, FLEXIBLE SPACECRAFT, FLEXIBLE WINGS, FLUTTER, LARGE SPACE STRUCTURES, OPTIMAL CONTROL, ROBOTICS, VIBRATION DAMPING

N91-27182*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

PACKAGING, DEVELOPMENT, AND ON-ORBIT ASSEMBLY OPTIONS FOR LARGE GEOSTATIONARY SPACECRAFT

WILLIAM T. DAVIS (National Aeronautics and Space

Administration, Langley Research Center, Hampton, VA.) and CHARLES B. KING (Bionetics Corp., Hampton, VA.) Washington Jul. 1991 34 p

(RTOP 506-49-31-01)

(NASA-TP-3088; L-16863; NAS 1.60:3088) Avail: CASI HC

GEOSYNCHRONOUS ORBITS, LARGE SPACE STRUCTURES, LAUNCH VEHICLES, ORBITAL ASSEMBLY, PAYLOAD INTEGRATION, SPACE ERECTABLE STRUCTURES, SPACECRAFT DESIGN, SYNCHRONOUS SATELLITES

N91-28191* National Aeronautics and Space Administration, Washington, DC.

LARGE SPACE STRUCTURES AND SYSTEMS IN THE SPACE STATION ERA: A BIBLIOGRAPHY WITH INDEXES

JOHN J. FERRAINOLO, comp. and GEORGE F. LAWRENCE, comp. May 1991 329 p

(NASA-SP-7085(02); NAS 1.21:7085(02)) Avail: CASI HC A15

Bibliographies and abstracts are listed for 1219 reports, articles, and other documents introduced into the NASA scientific and technical information system between July 1, 1990 and December 31, 1990. The purpose is to provide helpful information to the researcher, manager, and designer in technology development and mission design according to system, interactive analysis and design, structural and thermal analysis and design, structural concepts and control systems, electronics, advanced materials, assembly concepts, propulsion, and solar power satellite systems. Author

N92-11087*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

MULTIDISCIPLINARY OPTIMIZATION OF CONTROLLED SPACE STRUCTURES WITH GLOBAL SENSITIVITY EQUATIONS

SHARON L. PADULA, BENJAMIN B. JAMES, PHILIP C. GRAVES (Vigyan Research Associates, Inc., Hampton, VA.), and STANLEY E. WOODARD Nov. 1991 39 p (RTOP 506-43-41-01)

(NASA-TP-3130; NAS 1.60:3130) Avail: CASI HC A03/MF A01 CONTROL SYSTEMS DESIGN, LARGE SPACE STRUCTURES, OPTIMIZATION, SPACECRAFT CONTROL, SPACECRAFT DESIGN, SPACECRAFT STRUCTURES, WEIGHT REDUCTION

N92-17098*# National Aeronautics and Space Administration, Washington, DC.

BEYOND THE BASELINE 1991: PROCEEDINGS OF THE SPACE STATION EVOLUTION SYMPOSIUM. VOLUME 1: SPACE STATION FREEDOM, PART 1

Sep. 1991 336 p Symposium held in League City, TX, 6-8 Aug. 1991

(NĂSA-CP-10083-VOL-1-PT-1; S-653-VOL-1-PT-1; NAS 1.55:10083-VOL-1-PT-1) Avail: CASI HC A15/MF A03

SPACE STATION FREEDOM, SPACECRAFT CONFIGURATIONS, SPACECRAFT DESIGN, USER REQUIREMENTS

N92-17348*# National Aeronautics and Space Administration, Washington, DC.

BEYOND THE BASELINE 1991: PROCEEDINGS OF THE SPACE STATION EVOLUTION SYMPOSIUM. VOLUME 2: SPACE STATION FREEDOM, PART 2

Sep. 1991 464 p Symposium held in League City, TX, 6-8 Aug. 1991

(NASA-CP-10083-VOL-2-PT-2; S-653-VOL-2-PT-2; NAS 1.55:10083-VOL-2-PT-2) Avail: CASI HC A20/MF A04

CONFERENCES, EVOLUTION (DEVELOPMENT), PROJECT PLANNING, SOFTWARE ENGINEERING, SPACE STATION FREEDOM, SYSTEMS ENGINEERING

N92-17409*# National Aeronautics and Space Administration, Washington, DC.

BEYOND THE BASELINE 1991: PROCEEDINGS OF THE SPACE STATION EVOLUTION SYMPOSIUM. VOLUME 1: SPACE STATION FREEDOM, PART 2

Sep. 1991 369 p. Symposium held in League City, TX, 6-8 Aug. 1991

(NĂSA-CP-10083-VOL-1-PT-2; S-653-VOL-1-PT-2; NAS 1.55:10083-VOL-1-PT-2) Avail: CASI HC A16/MF A03

CONFERENCES, EXPERT SYSTEMS, SPACE STATION FREEDOM

N92-17768*# National Aeronautics and Space Administration, Washington, DC.

BEYOND THE BASELINE 1991: PROCEEDINGS OF THE SPACE STATION EVOLUTION SYMPOSIUM. VOLUME 2: SPACE STATION FREEDOM, PART 1

Sep. 1991 273 p Symposium held in League City, TX, 6-8 Aug. 1991

(NĂSA-CP-10083-VOL-2-PT-1; S-653-VOL-2-PT-1; NAS 1.55:10083-VOL-2-PT-1) Avail: CASI HC A12/MF A03

AEROSPACE ENGINEERING, CONFERENCES. DISTRIBUTED PARAMETER SYSTEMS, FUNCTIONAL DESIGN SPECIFICATIONS, MISSION PLANNING, PROJECT PLANNING, SPACE STATION FREEDOM, SPACECRAFT DESIGN, USER REQUIREMENTS

N92-22317* National Aeronautics and Space Administration, Washington, DC.

LARGE SPACE STRUCTURES AND SYSTEMS IN THE SPACE STATION ERA: A BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 03)

Dec. 1991 324 p

(NASA-SP-7085(03); NAS 1.21:7085(03)) Avail: CASI HC A14

Bibliographies and abstracts are listed for 1221 reports, articles. and other documents introduced into the NASA scientific and technical information system between January 1, 1991 and June 30, 1991. Topics covered include large space structures and systems, space stations, extravehicular activity, thermal environments and control, tethering, spacecraft power supplies, structural concepts and control systems, electronics, advanced materials, propulsion, policies and international cooperation, vibration and dynamic controls, robotics and remote operations, data and communication systems, electric power generation, space commercialization, orbital transfer, and human factors engineering. Author

N92-27721*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. INTERNATIONAL SYMPOSIUM ON MAGNETIC SUSPENSION

TECHNOLOGY, PART 1

NELSON J. GROOM, ed. and COLIN P. BRITCHER, ed. (Old Dominion Univ., Norfolk, VA.) Washington May 1992 470 p Symposium held in Hampton, VA, 19-23 Aug. 1991 (RTOP 590-14-11-02)

(NASA-CP-3152-PT-1; L-17092-PT-1; NAS 1.55:3152-PT-1) Avail: CASI HC A20/MF A04

CONFERENCES, CONTROL EQUIPMENT. MAGNETIC BEARINGS, MAGNETIC CONTROL, MAGNETIC LEVITATION VEHICLES, MAGNETIC SUSPENSION, SUPERCONDUCTING MAGNETS

N92-27788*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

INTERNATIONAL SYMPOSIUM ON MAGNETIC SUSPENSION TECHNOLOGY, PART 2

NELSON J. GROOM, ed. (Cray Research, Inc., Albuquerque, NM.) and COLIN P. BRITCHER, ed. (Old Dominion Univ., Norfolk, VA.) Washington May 1992 459 p. Symposium held in Hampton, VA, 19-23 Aug. 1991

(RTOP 590-14-11-02)

(NASA-CP-3152-PT-2; L-17092-PT-2; NAS 1.55:3152-PT-2) Avail: CASI HC A20/MF A04

CONTROL SYSTEMS DESIGN, MAGNETIC BEARINGS, MAGNETIC SUSPENSION, SUPERCONDUCTING MAGNETS. SUPERCONDUCTIVITY

N92-28730*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

ONGOING PROGRESS IN SPACECRAFT CONTROLS

DAVE GHOSH, ed. (Lockheed Engineering and Sciences Co., Hampton, VA.) Jul. 1992 143 p Workshop held in Hampton, VA, 13 Jan. 1992

(RTOP 506-59-61-01)

(NASA-CP-10099; NAS 1.55:10099) Avail: CASI HC A07/MF A02

ADAPTIVE CONTROL, CONTROL SYSTEMS DESIGN, DYNAMIC STRUCTURAL ANALYSIS, MANNED MARS MISSIONS, MANNED SPACECRAFT, NASA SPACE PROGRAMS, ROBOTICS, SPACE EXPLORATION, SPACECRAFT CONTROL

19

SPACECRAFT INSTRUMENTATION

N92-25147*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FEASIBILITY STUDY OF A LOW-ENERGY GAMMA RAY SYSTEM FOR MEASURING QUANTITY AND FLOW RATE OF SLUSH HYDROGEN

JAG J. SINGH, CHIH-PING SHEN, and DANNY R. SPHINKLE (Old Dominion Univ., Norfolk, VA.) Apr. 1992 14 p (RTOP 307-50-10-02)

(NASA-TP-3150; L-16980; NAS 1.60;3150) Avail: CASI HC A03/MF A01

FEASIBILITY ANALYSIS, FLOW VELOCITY, GAMMA RAYS, SLUSH HYDROGEN X RAYS

20

SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.

N91-11800*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

METALLIZED PROPELLANTS FOR THE HUMAN **EXPLORATION OF MARS**

BRYAN A. PALASZEWSKI Nov. 1990 14 p (RTOP 506-42-00)

(NASA-TP-3062; E-5544; NAS 1.60:3062) Avail: CASI HC A03/MF A01

EARTH ORBITS, LAUNCHING, MANNED MARS MISSIONS. METAL PROPELLANTS, MISSION PLANNING, PAYLOADS, SPACE TRANSPORTATION

N91-15308*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

LUNAR MISSIONS USING CHEMICAL PROPULSION: SYSTEM

DESIGN ISSUES BRYAN PALASZEWSKI Jan. 1991 13 p Presented at the 26th Joint Propulsion Conference, Orlando, FL, 16-18 Jul. 1990;

sponsored in part by AIAA, ASME, SAE, and ASEE Previously announced as A90-47221 (RTOP 506-42-51)

(NASA-TP-3065; E-5542; NAS 1,60:3065) Avail: CASI HC

A03/MF A01

CHEMICAL PROPULSION, HYDRAZINES, LUNAR BASES, METAL PROPELLANTS, PAYLOADS, PROPELLANT ADDITIVES, PROPULSION SYSTEM CONFIGURATIONS, PROPULSION SYSTEM PERFORMANCE, SPACE TRANSPORTATION

N91-19182*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

SPACE PHOTOVOLTAIC RESEARCH AND TECHNOLOGY.

Washington Jan. 1991 515 p Tenth conference held in Cleveland, OH, 7-9 Nov. 1989 (RTOP 506-41-11)

(NASA-CP-3107; E-5728; NAS 1.55:3107) Avail: CASI HC A22/MF A04

CONFERENCES, PHOTOVOLTAIC CELLS, PHOTOVOLTAIC CONVERSION, SOLAR ARRAYS, SOLAR CELLS, SPACECRAFT POWER SUPPLIES

N91-24307*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

STRUCTURAL INTEGRITY AND DURABILITY OF REUSABLE SPACE PROPULSION SYSTEMS

259 p Conference held in Cleveland, OH, 18-19 Apr. 1989 Apr. 1989

(RTOP 553-13-00)

(NASA-CP-10030; E-4628; NAS 1.55:10030) Avail: CASI HC A12/MF A03

CONFERENCES, DYNAMIC STRUCTURAL ANALYSIS, LIFE (DURABILITY), PREDICTION ANALYSIS TECHNIQUES, PROPULSION SYSTEM CONFIGURATIONS, REUSABLE ROCKET **ENGINES**

N91-25176°# National Aeronautics and Space Administration, Washington, DC.

SPACE TRANSPORTATION PROPULSION TECHNOLOGY SYMPOSIUM. VOLUME 1: EXECUTIVE SUMMARY

May 1991 36 p Symposium held in State College, PA, 25-29 Jun. 1990

(NASA-CP-3112; NAS 1.55:3112) Avail: CASI HC A03/MF A01 BOOSTER ROCKET ENGINES, PROPULSION, PROPULSION SYSTEM CONFIGURATIONS, SPACE TRANSPORTATION. SPACE TRANSPORTATION SYSTEM

N91-28193*# National Aeronautics and Space Administration, Washington, DC.

SPACE TRANSPORTATION PROPULSION TECHNOLOGY SYMPOSIUM. VOLUME 2: SYMPOSIUM PROCEEDINGS

May 1991 693 p. Symposium held in State College, PA, 25-29 Jun. 1990

(NASA-CP-3112-VOL-2; NAS 1.55:3112-VOL-2) Avail: CASI HC A99/MF A06

PROPULSION SYSTEM CONFIGURATIONS, PROPULSION SYSTEM PERFORMANCE, SPACE TRANSPORTATION, SPACE TRANSPORTATION SYSTEM, SPACECRAFT POWER SUPPLIES

N91-28235*# National Aeronautics and Space Administration, Washington, DC.

SPACE TRANSPORTATION PROPULSION TECHNOLOGY SYMPOSIUM, VOLUME 3: PANEL SESSION SUMMARIES AND **PRESENTATIONS**

May 1991 620 p. Symposium held in State College, PA, 25-29 Jun 1990

(NASA-CP-3112-VOL-3; NAS 1.55:3112-VOL-3) Avail: CASI HC A99/MF A06

CONFERENCES, PROPULSION SYSTEM CONFIGURATIONS, TRANSPORTATION, SPACE TRANSPORTATION SYSTEM, SPACECRAFT PROPULSION

N91-30203*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

SPACE PHOTOVOLTAIC RESEARCH AND TECHNOLOGY CONFERENCE

Aug. 1991 471 p. The 11th Conference was held in Cleveland, OH, 7-9 May 1991 (RTOP 506-41-11)

(NASA-CP-3121; E-6161; NAS 1.55:3121) Avail: CASI HC A20/MF A04

AEROSPACE ENVIRONMENTS, CONFERENCES, ELECTRON

IRRADIATION, EXPOSURE, PHOTOVOLTAIC CONVERSION, PROTON IRRADIATION, RADIATION DAMAGE, SOLAR CELLS, SPACECRAFT POWER SUPPLIES

N92-10044*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

MAGNETOPLASMADYNAMIC THRUSTER WORKSHOP

1991 178 p Workshop held in Washington, DC, 16 May 1991; sponsored in part by NASA, Washington (RTOP 506-42-31)

(NASA-CP-10084; E-6518; NAS 1.55:10084) Avail: CASI HC A09/MF A02

CONFERENCES, ELECTRIC ROCKET ENGINES, LOW THRUST PROPULSION, MAGNETOPLASMADYNAMICS, PLASMA PROPULSION

N92-11088*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

NUCLEAR THERMAL PROPULSION: A JOINT NASA/DOE/LOD WORKSHOP

JOHN S. CLARK, ed. 1991 500 p Workshop held in Cleveland, OH, 10-12 Jul. 1990 (RTOP 593-71-00)

(NASA-CP-10079; E-6456; NAS 1.55:10079) Avail: CASI HC A21/MF A04

NUCLEAR ENGINE FOR ROCKET VEHICLES, NUCLEAR PROPULSION, PROJECT MANAGEMENT, PROJECT PLANNING, PROPULSION SYSTEM CONFIGURATIONS, PROPULSION SYSTEM PERFORMANCE, REACTOR DESIGN, REACTOR TECHNOLOGY, RESEARCH PROJECTS, ROCKET ENGINE DESIGN

N92-12052*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

AUTOMATING A SPACECRAFT ELECTRICAL POWER SYSTEM USING EXPERT SYSTEMS

L. F. LOLLAR Washington Oct. 1991 22 p (NASA-TP-3161; M-670; NAS 1.60:3161) Avail: CASI HC A03/MF A01

AUTOMATIC CONTROL, AUTONOMY, BREADBOARD MODELS, EXPERT SYSTEMS, SPACE STATION FREEDOM, SPACECRAFT POWER SUPPLIES

N92-14108*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

LIMIT CYCLE VIBRATIONS IN TURBOMACHINERY

S. G. RYAN Dec. 1991 84 p

(NASA-TP-3181; M-676; NAS 1.60:3181) Avail: CASI HC A05/MF A01

ROTOR DYNAMICS, ROTORS, SPACE SHUTTLE MAIN ENGINE, TURBINE PUMPS, TURBOMACHINERY, VIBRATION

N92-17151*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

UPPER STAGES USING LIQUID PROPULSION AND METALLIZED PROPELLANTS

BRYAN A. PALASZEWSKI Washington Feb. 1992 22 p (RTOP 506-42-72)

(NASA-TP-3191; E-6105; NAS 1.60:3191) Avail: CASI HC A03/MF A01

GELLED PROPELLANTS, INERTIAL UPPER STAGE, LAUNCH VEHICLES, METAL PROPELLANTS, PROPELLANT ADDITIVES, SPACE MISSIONS, SPACE TRANSPORTATION, SPACE TRANSPORTATION SYSTEM, SPACECRAFT PROPULSION

N92-20949*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

OPTICAL MEASUREMENTS ON SOLID SPECIMENS OF SOLID ROCKET MOTOR EXHAUST AND SOLID ROCKET MOTOR SLAG

F E. ROBERTS, III Washington Dec. 1991 20 p (RTOP 476-50-03)

(NASA-TP-3177; M-674; NAS 1.60:3177) Avail: CASI HC A03/MF A01

ABSORPTIVITY, COMBUSTION PRODUCTS, EXHAUST EMISSION, OPTICAL MEASUREMENT, ROCKET EXHAUST, SLAGS, SOLID PROPELLANT ROCKET ENGINES, SOLID ROCKET PROPELLANTS, SPACE DEBRIS, SPACE SHUTTLE BOOSTERS, THERMAL EMISSION

N92-21517*# National Aeronautics and Space Administration Lewis Research Center, Cleveland, OH.

ROCKET-BASED COMBINED-CYCLE (RBCC) PROPULSION TECHNOLOGY WORKSHOP, TUTORIAL SESSION

1992 259 p Workshop held in Huntsville, AL, 23-27 Mar. 1992; sponsored by NASA, Washington (RTOP 590-21-11)

(NASA-CP-10090; E-6929; NAS 1.55:10090) Avail: CASI HC A12/MF A03

AEROSPACE PLANES, ENGINE PARTS, HYPERSONIC FLIGHT, ROCKET ENGINE DESIGN, ROCKET ENGINES

N92-27130*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

THE 1990 NASA AEROSPACE BATTERY WORKSHOP
LEWIS M. KENNEDY, comp. Washington May 1991 888 p
Workshop held in Huntsville, AL, 4-6 Dec. 1990
(NASA-CP-3119; M-661; NAS 1.55:3119) Avail: CASI HC

(NASA-CP-3119; M-661; NAS 1.55:3119) Avail: CASI HC A99/MF A10 AFROSPACE ENGINEERING CONFERENCES LIT

AEROSPACE ENGINEERING, CONFERENCES, LITHIUM SULFUR BATTERIES, NICKEL CADMIUM BATTERIES, NICKEL HYDROGEN BATTERIES, SILVER ZINC BATTERIES, SPACECRAFT POWER SUPPLIES, TECHNOLOGY ASSESSMENT

23

CHEMISTRY AND MATERIALS (GENERAL)

N91-20207*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

NATIONAL EDUCATORS' WORKSHOP: UPDATE 1988. STANDARD EXPERIMENTS IN ENGINEERING MATERIALS SCIENCE AND TECHNOLOGY

JAMES E. GARDNER, comp. (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.) and JAMES A. JACOBS, comp. (Norfolk State Univ., VA.) Washington Jan. 1990 83 p Workshop held in Gaithersburg, MD, 10-12 May 1988; sponsored by NASA, Washington and NIST. Gaithersburg, MD

(NAG1-976; RTOP 505-63-01-15)

(NASA-CP-3060; L-16732; NAS 1.55:3060) Avail: CASI HC A05/MF A01

CONFERENCES, EDUCATION, EXPERIMENTATION. FRACTURE MECHANICS, FRACTURING, HIGH TEMPERATURE SUPERCONDUCTORS, INSPECTION, RADIOGRAPHY. RESEARCH AND DEVELOPMENT, TECHNOLOGIES

24

COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials.

N91-10127*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH STRUCTURAL PROPERTIES OF LAMINATED DOUGLAS FIR/EPOXY COMPOSITE MATERIAL DAVID A. SPERA (Sverdrup Technology, Inc., Cleveland, OH.), JACK B. ESGAR (Gougeon Bros., Inc., Bay City, Ml.), MEADE GOUGEON, and MICHAEL D. ZUTECK (Gougeon Bros., Inc., Bay City, Ml.) May 1990 140 p

(NAS3-25266; DE-Al01-76ET-20320; RTOP 776-33-41)

(NASA-RP-1236; E-4720; NAS 1.61:1236; DOE/NASA/20320-76) Avail: CASI HC A07/MF A02

This publication contains a compilation of static and fatigue strength data for laminated-wood material made from Douglas fir and epoxy. Results of tests conducted by several organizations are correlated to provide insight into the effects of variables such as moisture, size, lamina-to-lamina joint design, wood veneer grade, and the ratio of cyclic stress to steady stress during fatigue testing. These test data were originally obtained during development of wood rotor blades for large-scale wind turbines of the horizontal-axis (propeller) configuration. Most of the strength property data in this compilation are not tound in the published literature. Test sections ranged from round cylinders 2.25 in. in diameter to rectangular slabs 6 by 24 in. in cross section and approximately 30 ft. long. All specimens were made from Douglas fir veneers 0.10 in. thick, bonded together with the WEST epoxy system developed for fabrication and repair of wood boats. Loading was usually parallel to the grain. Size effects (reduction in strength with increase in test volume) are observed in some of the test data, and a simple mathematical model is presented that includes the probability of failure. General characteristics of the wood/epoxy laminate are discussed, including features that make it useful for a wide variety of applications.

N91-13492*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AN INVESTIGATION OF MICROSTRUCTURAL CHARACTERISTICS OF CONTACT-LENS POLYMERS

JAG J. SINGH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), ABE EFTEKHARI (Analytical Services and Materials, Inc., Hampton, VA.), BILLY T. UPCHURCH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and KAREN S. BURNS (Old Dominion Univ., Norfolk, VA.) Washington Dec. 1990 12 p

(RTOP 412-20-26-01)

(NASA-TP-3034; L-16817; NAS 1.60:3034) Avail: CASI HC A03/MF A01

CONTACT LENSES, GASEOUS DIFFUSION, MICROSTRUCTURE, PERMEABILITY, VOLUME

N91-14437*# National Aeronautics and Space Administration. Goddard Space Fiight Center, Greenbelt, MD.

OUTGASSING DATA FOR SELECTING SPACECRAFT MATERIALS, REVISION 2

WILLIAM A. CAMPBELL, JR. and JOHN J. SCIALDONE Washington Nov. 1990 398 p

(NASA-RP-1124-REV-2; REPT-90B00138-REV-2; NAS 1.61:1124-REV-2; NASA-RP-1014; NASA-TN-D-7362; NASA-TN-D-8008) Avail: CASI HC A17/MF A04

Outgassing data, derived from tests at 398 K (125 C) for 24 hours in vacuum as per ASTM E 595-77, were compiled for numerous materials for spacecraft use. The data presented are the total mass loss (TML) and the collected volatile condensable materials (CVCM). The various materials are listed by likely usage and alphabetically.

N91-18215*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

COMPRESSION BEHAVIOR OF GRAPHITE-THERMOPLASTIC AND GRAPHITE-EPOXY PANELS WITH CIRCULAR HOLES OR IMPACT DAMAGE

DAWN C JEGLEY Washington Mar 1991 18 p (RTOP 505-63-01-09)

(NASA-TP-3071, L-16853, NAS 1.60-3071) Avail CASI HC A03/MF A01

AXIAL COMPRESSION LOADS, GRAPHITE-EPOXY

COMPOSITES, HOLE DISTRIBUTION (MECHANICS), IMPACT DAMAGE, LAMINATES, THERMOPLASTIC RESINS

N91-18216*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

INVESTIGATION OF MICROSTRUCTURAL CHANGES IN POLYETHERETHER-KETONE FILMS AT CRYOGENIC TEMPERATURES BY POSITRON LIFETIME SPECTROSCOPY

JAG J. SINGH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA), ABE EFTEKHARI (Analytical Services and Materials, Inc., Hampton, VA), TERRY L. ST.CLAIR (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA), and DANNY R. SPRINKLE Washington Mar. 1991 13 p

(RTOP 506-43-21-05)

(NASA-TP-3064; L-16841; NAS 1 60:3064) Avail: CASI HC A03/MF A01

COOLING, MICROSTRUCTURE, PEEK, POSITRON ANNIHILATION, SPECTROSCOPY, TEMPERATURE EFFECTS

N91-21242*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL

A NOVEL METHOD OF TESTING THE SHEAR STRENGTH OF THICK HONEYCOMB COMPOSITES

A. J. HODGE and A. T. NETTLES Mar 1991 16 p (NASA-TP-3108; NAS 1.60:3108) Avail: CASI HC A03/MF A01 HONEYCOMB CORES, HONEYCOMB STRUCTURES, IMPACT

HONEYCOMB CORES, HONEYCOMB STRUCTURES, IMPACT DAMAGE, IMPACT TESTS, IMPACT TOLERANCES, SHEAR STRENGTH

N91-29240*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

NASA WORKSHOP ON IMPACT DAMAGE TO COMPOSITES
C. C. POE, JR. Jul. 1991 476 p Workshop held in Hampton,
Va, 19-20 Mar. 1991
(RTOP 505-63-50-04)

(NASA-CP-10075; NAS 1.55:10075) Avail. CASI HC A21/MF A04

COMPOSITE STRUCTURES, CONFERENCES, IMPACT DAMAGE, POLYMER MATRIX COMPOSITES

N92-10067*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA. PROPERTIES OF THREE GRAPHITE/TOUGHENED RESIN

PROPERTIES OF THREE GRAPHITE/TOUGHENED RESIN COMPOSITES

DONALD L. SMITH (Lockheed Engineering and Sciences Co. Hampton, VA.) and MARVIN B DOW Washington Sep. 1991 50 p

(RTOP 505-63-50-05)

(NASA-TP-3102; L-16910; NAS 1.60·3102) Avail: CASI HC A03/MF A01

COMPRESSION TESTS, GRAPHITE-EPOXY COMPOSITES.
IMPACT DAMAGE, IMPACT LOADS, IMPACT TESTS,
LAMINATES

N92-11142*# National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL

AN EXAMINATION OF THE DAMAGE TOLERANCE ENHANCEMENT OF CARBON/EPOXY USING AN OUTER LAMINA OF SPECTRA (R) Final Report

D. G. LANCE and A. T. NETTLES Washington Oct. 1991 33 p (PROJ. 90-17)

(NASA-TP-3160, M-671; NAS 1 60 3160) Avail CASI HC A03/MF A01

DAMAGE, EPOXY MATRIX COMPOSITES, IMPACT TESTS, PLATES (STRUCTURAL MEMBERS), POLYETHYLENES, RESIDUAL STRENGTH, TOLERANCES (MECHANICS)

N92-20679*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA

OPTIMIZATION OF COMPOSITE SANDWICH COVER PANELS SUBJECTED TO COMPRESSIVE LOADINGS

JUAN R CRUZ Dec 1991 13 p

(RTOP 505-63-50-08)

(NASA-TP-3173; L-16942; NAS 1.60:3173) Avail: CASI HC A03/MF A01

COMPOSITE STRUCTURES, COMPRESSION LOADS, COMPUTER PROGRAMS, DESIGN ANALYSIS, OPTIMIZATION, SANDWICH STRUCTURES, STRUCTURAL DESIGN, WING PANELS

N92-20950*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

A STATISTICAL COMPARISON OF TWO CARBON FIBER/EPOXY FABRICATION TECHNIQUES

A. J. HODGE Washington Dec. 1991 12 p (NASA-TP-3179; M-673; NAS 1.60:3179) Avail: CASI HC A03/MF A01

AUTOCLAVES, CARBON FIBER REINFORCED PLASTICS, CARBON FIBERS, COMPRESSIVE STRENGTH, CURING, EPOXY MATRIX COMPOSITES, PRESSES

N92-21605*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

AMSAHTS 1990: ADVANCES IN MATERIALS SCIENCE AND APPLICATIONS OF HIGH TEMPERATURE SUPERCONDUCTORS

LARRY H. BENNETT, ed., YURY FLOM, ed., and KISHIN MOORJANI, ed. (Johns Hopkins Univ., Laurel, MD.) Jan. 1991 488 p. Conference held in Greenbelt, MD, 2-6 Apr. 1990; sponsored in cooperation with NASA, NIST, JHU, and DARPA Previously announced as N90-27792

(NASA-CP-3100; REPT-90B00018; NAS 1.55:3100) Avail: CASI HC A21/MF A04

HIGH TEMPERATURE SUPERCONDUCTORS, OXIDES. REACTION KINETICS, LURFACE REACTIONS, THER-MODYNAMIC PROPERTIES

N92-23981*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EFFECT OF LOW-SPEED IMPACT DAMAGE AND DAMAGE LOCATION ON BEHAVIOR OF COMPOSITE PANELS

DAWN C. JEGLEY May 1992 27 p Presented at the 9th DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, Lake Tahoe, NV, 4-7 Nov. 1991 (RTOP 505-63-50-08)

(NASA-TP-3196; L-17031; NAS 1.60:3196) Avail: CASI HC A03/MF A01

BUCKLING, GRAPHITE-EPOXY COMPOSITES, IMPACT DAMAGE, IMPACT TESTS, LAMINATES, LOW SPEED

N92-25160°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

BUCKLING BEHAVIOR OF LONG SYMMETRICALLY LAMINATED PLATES SUBJECTED TO COMBINED LOADINGS MICHAEL P. NEMETH May 1992 31 p Presented at the Ninth DoD/FAA Conference on Fibrous Composites in Structural Design, Lake Tahoe, NV, 4-7 Nov. 1991 (RTOP 505-63-50-07)

(NASA-TP-3195; L-17035; NAS 1.60:3195) Avail: CASI HC A03/MF A01

ANISOTROPIC PLATES, BENDING, BUCKLING, LAMINATES, LOADS (FORCES), STIFFNESS, STRUCTURAL ANALYSIS

N92-32513*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EIGHTH DOD/NASA/FAA CONFERENCE ON FIBROUS COMPOSITES IN STRUCTURAL DESIGN, PART 1

JAMES H. STARNES, JR., comp., HERMAN L. BOHON, comp. (Lockheed Engineering and Sciences Co., Hampton, VA.), and SHERRY B. GARZON, comp. Sep. 1990 383 p. Conference held in Norfolk, VA, 28-30 Nov. 1989

(RTOP 505-63-01-09)

(NASA-CP-3087-PT-1; L-16832-PT-1; NAS 1.55:3087-PT-1)

Avail: CASI HC A17/MF A03

AIRCRAFT DESIGN. COMPOSITE STRUCTURES.

CONFERENCES, FIBER COMPOSITES, FINITE ELEMENT METHOD, MATHEMATICAL MODELS, MECHANICAL PROPERTIES, STRUCTURAL DESIGN

N92-32574*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EIGHTH DOD/NASA/FAA CONFERENCE ON FIBROUS COMPOSITES IN STRUCTURAL DESIGN, PART 2

JAMES H. STARNES, JR., comp., HERMAN Ł. BOHON, comp. (Lockheed Engineering and Sciences Co., Hampton, VA.), and SHERRY B. GARZON, comp. Sep. 1990 315 p. Conference held in Norfolk, VA, 28-30 Nov. 1989 (RTOP 505-63-01-09)

(NASA-CP-3087-PT-2; L-16832-PT-2; NAS 1.55:3087-PT-2) Avail: CASI HC A14/MF A03

AIRCRAFT CONSTRUCTION MATERIALS, COMPOSITE STRUCTURES, CONFERENCES, FIBER COMPOSITES, STRUCTURAL ANALYSIS, STRUCTURAL DESIGN

25

INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

N92-28374*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AN ANALYSIS OF COMBUSTION STUDIES IN SHOCK EXPANSION TUNNELS AND REFLECTED SHOCK TUNNELS CASIMIR J. JACHIMOWSKI Jul. 1992 12 p

(RTOP 505-62-40-04) (NASA-TP-3224; L-17025; NAS 1.60:3224) Avail: CASI HC A03/MF A01

COMBUSTION CHAMBERS, COMBUSTION CHEMISTRY, COMBUSTION PHYSICS, HYPERSONIC FLIGHT, REACTION KINETICS, SHOCK TUNNELS

26

METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

N91-13522*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

OXIDATION CHARACTERISTICS OF TI-25AL-10NB-3V-1MO INTERMETALLIC ALLOY

TERRYL A. WALLACE (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), RONALD K. CLARK (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), SANKARA N. SANKARAN (Analytical Services and Materials, Inc., Hampton, VA.), and KARL E. WIEDEMANN (Analytical Services and Materials, Inc., Hampton, VA.) Washington Dec. 1990 18 p (RTOP 506-43-71-01)

(NASA-TP-3044; L-16808; NAS 1.60:3044) Avail: CASI HC A03/MF A01

ALUMINIDES, OXIDATION, REACTION KINETICS, TEMPERATURE EFFECTS, TITANIUM ALLOYS

N91-17208*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL ELECTROCHEMICAL STUDIES OF CORROSION INHIBITORS M. D. DANFORD Washington Nov. 1990 21 p (NASA-TP-3066; NAS 1.60:3066) Avail: CASI HC A03/MF A01

CORROSION, CORROSION PREVENTION, ELECTROCHEMISTRY, INHIBITORS, OXYGENATION, THERMODYNAMIC PROPERTIES

N91-20266*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SURFACE EFFECTS ON HYDROGEN PERMEATION THROUGH TI-14AL-21NB ALLOY

SANDARA N. SANKARAN (Analytical Services and Materials, Inc., Hampton, VA.), RONALD A. OUTLAW, and RONALD K. CLARK Washington Apr. 1991 15 p (RTOP 506-43-71-01)

(NASA-TP-3109; L-16826; NAS 1.60:3109) Avail: CASI HC A03/MF A01

ALUMINUM ALLOYS, HYDROGEN, NIOBIUM ALLOYS, PERMEABILITY, PERMEATING, TITANIUM ALLOYS, ULTRAHIGH **VACUUM**

N91-29318*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL THE INTERACTION OF HYDROGEN WITH METAL ALLOYS M. D. DANFORD and J. W. MONTANO Aug. 1991 38 p (NASA-TP-3128; M-664; NAS 1.60:3128) Avail: CASI HC A03/MF A01

ALLOYS, **GAS-METAL** INTERACTIONS, **GASEOUS** DIFFUSION. HELIUM. HYDROGEN. **HYDROGEN** EMBRITTLEMENT, METAL HYDRIDES

National Aeronautics and Space Administration. N91-30318*# Lewis Research Center, Cleveland, OH.

EQUIVALENT CRYSTAL THEORY OF ALLOYS

GUILLERMO BOZZOLO (Analex Corp., Fairview Park, OH.) and JOHN FERRANTE Sep. 1991 26 p. (RTOP 505-90-51) (NASA-TP-3155; E-5996; NAS 1.60:3155) Avail: CASI HC A03/MF A01

BINARY ALLOYS, COHESION, CRYSTAL DEFECTS, CRYSTAL LATTICES, CRYSTAL STRUCTURE, ENERGY OF FORMATION, LATTICE PARAMETERS

N92-20063*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD. LONG-TERM LIFE TESTING OF GEOSTATIONARY **OPERATIONAL ENVIRONMENTAL SATELLITE (GOES)**

ENCODER LAMPS CHARLES E. POWERS Feb. 1992 120 p

(RTOP 030-09-01-01) (NASA-RP-1273; REPT-92B00013; NAS 1.61:1273) Avail: CASI HC A06/MF A02

The aging characteristics and lifetimes of tungsten filament encoder lamps were determined as a function of operating voltage and filament material. For pure tungsten and thoria doped (1 pct.) filament lamps, crystal grain growth over the center portion of the filament leads to the ultimate failure of the lamp. The development of notches associated with this grain growth is the cause of lamp burn out. Eventually, one of the notches will 'etch' through the filament, causing it to fail open. For rhenium doped (3 pct.) filament lamps, distortion of the filament leads to the ultimate failure of the lamp. The lifetime of these lamps is about 1 year at an operating voltage of 5.0 volts. The pure tungsten filament lamps have the longest average lifetime, and the thoria doped filament lamps have the shortest at 5.0 volts. The lifetimes of these lamps is about 7 years at an operating voltage of 3.5 volts. Data suggest that the rhenium doped lamps will have the longest average lifetime at 3.5 volts, and the thoria doped will have the shortest. These lifetimes are comparable to the desired lifetimes of 7 years.

27

NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics. elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

N92-17070'# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

HIGH-TEMPERATURE DURABILITY CONSIDERATIONS FOR **HSCT COMBUSTOR**

NATHAN S. JACOBSON Washington Jan. 1992 19 p (RTOP 505-63-20)

(NASA-TP-3162; E-6343; NAS 1.60:3162) Avail: CASI HC A03/MF A01

CERAMIC COMPOSITES, COMBUSTION MATRIX CHAMBERS. HIGH TEMPERATURE TESTS. LININGS. REFRACTORY MATERIALS, THERMAL STABILITY

N92-22593*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD. SHORTCOMINGS IN GROUND TESTING, ENVIRONMENT SIMULATIONS, AND PERFORMANCE PREDICTIONS FOR SPACE APPLICATIONS

E. G. STASSINOPOULOS and G. J. BRUCKER (General Electric Co., West Long Branch, NJ.) Apr. 1992 18 p (NASA-TP-3217; NAS 1.60:3217; REPT-92B00001) Avail: CASI HC A03/MF A01

ENVIRONMENT SIMULATION, GROUND TESTS. PREDICTION. PERFORMANCE RADIATION DAMAGE. SATELLITES, SINGLE EVENT UPSETS, SPACECRAFT

N92-27194*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. EFFECT OF TEMPERATURE AND GAP OPENING RATE ON

THE RESILIENCY OF CANDIDATE SOLID ROCKET BOOSTER **O-RING MATERIALS**

CYNTHIA L. LACH Jul. 1992 14 p (RTOP 505-63-50-03)

(NASA-TP-3226; L-17023; NAS 1.60:3226) Avail: CASI HC A03/MF A01

DEFLECTION, ELASTOMERS, O RING SEALS, RESILIENCE. SEALING, TEMPERATURE EFFECTS

N92-31278*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

GIBBS FREE ENERGY OF REACTIONS INVOLVING SIC. SI3N4, H2, AND H2O AS A FUNCTION OF TEMPERATURE AND PRESSURE

M. A. ISHAM Aug. 1992 18 p

(RTOP 593-71-51)

(NASA-TP-3275; M-694; NAS 1.60:3275) Avail: CASI HC A03/MF A01

CERAMIC COATINGS, GIBBS FREE ENERGY, HYDROGEN. PRESSURE DEPENDENCE, SILICON CARBIDES, SILICON **TEMPERATURE** NITRIDES. **SURFACE** REACTIONS. DEPENDENCE, THERMODYNAMICS, WATER

29

MATERIALS PROCESSING

Includes space-based development of products and processes for commercial applications.

N92-13340*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

ANALYSIS OF GRAVITY-INDUCED PARTICLE MOTION AND FLUID PERFUSION FLOW IN THE NASA-DESIGNED ROTATING ZERO-HEAD-SPACE TISSUE CULTURE VESSEL

DAVID A. WOLF and RAY P. SCHWARZ (Krug International, Houston, TX.) Washington Oct. 1991 16 p (RTOP 694-01-23-05)

(NASA-TP-3143; S-644; NAS 1.60:3143) Avail: CASI HC A03/MF A01

CULTURE TECHNIQUES, DIFFUSION, FLOW VELOCITY, FLUID MECHANICS, GRAVITATIONAL EFFECTS, PARTICLE MOTION, REDUCED GRAVITY, TISSUES (BIOLOGY)

N92-30263*# National Aeronautics and Space Administration.

Langley Research Center, Hampton, VA.
NATIONAL EDUCATORS' WORKSHOP: UPDATE 1991.
STANDARD EXPERIMENTS IN ENGINEERING MATERIALS
SCIENCE AND TECHNOLOGY

JAMES E. GARDNER, comp., JAMES A. JACOBS, comp. (Norfolk State Univ., VA.), and JAMES O. STIEGLER, comp. (Oak Ridge National Lab., TN.) Washington Jun. 1992 369 p Workshop held in Oak Ridge, TN, 12-14 Nov. 1991; sponsored by NASA, DOE, Norfolk State Univ., and NIST (RTOP 505-63-50-01)

(NASA-CP-3151; L-17099; NAS 1.55:3151) Avail: CASI HC A16/MF A03

COMPOSITE MATERIALS, CONFERENCES, EDUCATION, EXPERIMENTATION, FRACTURE MECHANICS, METALLURGY, STRUCTURAL ANALYSIS

31

ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryoqenics; and fire prevention.

N91-25303*# National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL.
METHODS OF APPLIED DYNAMICS

M. H. RHEINFURTH and H. B. WILSON (Alabama Univ., Tuscaloosa.) Washington May 1991 210 p (NASA-RP-1262; M-659; NAS 1.61:1262) Avail: CASI HC A10/MF A03

The monograph was prepared to give the practicing engineer a clear understanding of dynamics with special consideration given to the dynamic analysis of aerospace systems. It is conceived to be both a desk-top reference and a refresher for aerospace engineers in government and industry. It could also be used as a supplement to standard texts for in-house training courses on the subject. Beginning with the basic concepts of kinematics and dynamics, the discussion proceeds to treat the dynamics of a system of particles. Both classical and modern formulations of the Lagrange equations, including constraints, are discussed and applied to the dynamic modeling of aerospace structures using the modal synthesis technique.

N92-11218*# National Aeronautics and Space Administration Marshall Space Flight Center, Huntsville, AL.

A GENERALIZED METHOD FOR MULTIPLE ROBOTIC
MANIPULATOR PROGRAMMING APPLIED TO VERTICAL-UP
WELDING

KENNETH R. FERNANDEZ (Vanderbilt Univ., Nashville, TN.), GEORGE E. COOK (Vanderbilt Univ., Nashville, TN.), KRISTINN ANDERSEN (Vanderbilt Univ., Nashville, TN.), ROBERT JOEL BARNETT, and SALEH ZEIN-SABATTOU (Vanderbilt Univ., Nashville, TN.) Washington Oct. 1991 30 p (NASA-TP-3163; M-672; NAS 1.60:3163) Avail: CASI HC A03/MF A01

ALGORITHMS, MANIPULATORS, NUMERICAL CONTROL, PLASMA ARC WELDING, ROBOT ARMS, ROBOT CONTROL, ROBOT DYNAMICS

N92-13343*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

A NONLINEAR ESTIMATOR FOR RECONSTRUCTING THE ANGULAR VELOCITY OF A SPACECRAFT WITHOUT RATE GYROS

M. E. POLITES and W. D. LIGHTSEY Washington Dec. 1991 24 p

(NASA-TP-3178; M-675; NAS 1.60:3178) Avail: CASI HC A03/MF A01

ANGULAR VELOCITY, ATTITUDE GYROS, AXES (REFERENCE LINES), ESTIMATORS, KALMAN FILTERS, NONLINEAR SYSTEMS, SATELLITE ATTITUDE CONTROL

N92-22235*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

THE ROLE OF FAILURE/PROBLEMS IN ENGINEERING: A COMMENTARY OF FAILURES EXPERIENCED - LESSONS LEARNED

R. S. RYAN Mar. 1992 142 p

(NASA-TP-3213; M-684; NAS 1.60:3213) Avail: CASI HC A07/MF A02

FAILURE ANALYSIS, HUBBLE SPACE TELESCOPE, SATURN 5 LAUNCH VEHICLES, SPACE SHUTTLE BOOSTERS, SPACE SHUTTLE MAIN ENGINE, SPACE SHUTTLES, TOTAL QUALITY MANAGEMENT

N92-28436*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

INTERNATIONAL WORKSHOP ON VIBRATION ISOLATION TECHNOLOGY FOR MICROGRAVITY SCIENCE APPLICATIONS

JOSEPH F. LUBOMSKI, ed. May 1992 405 p Workshop held in Cleveland, OH, 23-25 Apr. 1991 (RTOP 694-03-0C)

(NASA-CP-10094; E-7035; NAS 1.55;10094) Avail CASI HC A18/ME A04

CONFERENCES, CONTROLLERS, REDUCED GRAVITY, SPACE MANUFACTURING, SPACE SHUTTLES, SPACE STATION FREEDOM, VIBRATION ISOLATORS

N92-29677*# National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL.

DEFINITION AND DESIGN OF AN EXPERIMENT TO TEST RASTER SCANNING WITH ROTATING UNBALANCED-MASS DEVICES ON GIMBALED PAYLOADS

W. D. LIGHTSEY, D. C. ALHORN, and M. E. POLITES Jun 1992 19 p

(NASA-TP-3249; M-691; NAS 1.60:3249) Avail: CASI HC A03/MF A01

EXPERIMENT DESIGN, FEASIBILITY ANALYSIS, PAYLOADS, RASTER SCANNING, ROTATING BODIES, SERVOMECHANISMS, SERVOMOTORS

N92-30378*# National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD. CABLE COMPLI, NCE

J KERLEY, W. EKLUND (NSI Technology Services Corp.,

Greenbelt, MD.), R. BURKHARDT (NSI Technology Services Corp., Greenbelt, MD.), and P. ROSSONI Jun. 1992 138 p (NASA-TP-3216; NAS 1.60:3216; REPT-92B00026) Avail: CASI HC A07/MF A02

CABLES (ROPES), HUMAN FACTORS ENGINEERING, JOINTS (JUNCTIONS), MAN MACHINE SYSTEMS, PROSTHETIC DEVICES, ROBOT ARMS, ROBOTICS

National Aeronautics and Space Administration. N92-33601*# Marshall Space Flight Center, Huntsville, AL.

RECONFIGURING THE RUM EXPERIMENT TO TEST CIRCULAR SCANNING WITH ROTATING UNBALANCED-MASS **DEVICES ON GIMBALED PAYLOADS**

M. E. POLITES and D. C. ALHORN Sep. 1992 19 p. (NASA-TP-3282; M-696; NAS 1.60:3282) Avail: CASI HC A03/MF A01

COMPUTERIZED SIMULATION, ROTATION, SCANNERS, SCANNING, SERVOMECHANISMS, SERVOMOTORS

32

COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications.

National Aeronautics and Space Administration. N91-27436*# Lewis Research Center, Cleveland, OH.

A THREE-DIMENSIONAL FINITE-ELEMENT THERMAL/MECHANICAL ANALYTICAL TECHNIQUE FOR

HIGH-PERFORMANCE TRAVELING WAVE TUBES KAREN F. BARTOS, E. BRIAN FITE, KURT A. SHALKHAUSER, and G. RICHARD SHARP Washington Jun. 1991 Original contains color illustrations

(RTOP 650-60-20) (NASA-TP-3081; E-5917; NAS 1.60:3081) Avail: CASI HC A03/MF A01; 5 functional color pages

COMPUTER PROGRAMS, FAILURE ANALYSIS, FINITE ELEMENT METHOD, STRUCTURAL FAILURE, THERMAL ANALYSIS, THREE DIMENSIONAL MODELS, TRAVELING WAVE **TUBES**

N92-14202*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

SPACE COMMUNICATIONS TECHNOLOGY CONFERENCE: ONBOARD PROCESSING AND SWITCHING

Washington Nov. 1991 288 p Conference held in Cleveland, OH, 12-14 Nov. 1991 (RTOP 650-60-21)

(NASA-CP-3132; E-6548; NAS 1.55:3132) Avail: CASI HC

A13/MF A03

COMMUNICATION COMMUNICATION NETWORKS. NETWORK CONFERENCES, CONTROL. SATELLITES, ONBOARD DATA PROCESSING, SATELLITE COMMUNICATION, SATELLITE NETWORKS. SPACE COMMUNICATION, SWITCHING

N92-20404*# Johns Hopkins Univ., Laurel, MD. Applied Physics

PROPAGATION EFFECTS FOR LAND MOBILE SATELLITE SYSTEMS: OVERVIEW OF EXPERIMENTAL AND MODELING RESULTS

JULIUS GOLDHIRSH and WOLFHARD J. VOGEL 142 p Prepared in cooperation with Texas Univ., Austin (RTOP 643-10-03)

(NASA-RP-1274; NAS 1 61:1274) Avail: CASI HC A07/MF A02 Models developed and experiments performed to characterize the propagation environment associated with land mobile communication using satellites are discussed. Experiments were carried out with transmitters on stratospheric balloons, remotely piloted aircraft, helicopters, and geostationary satellites. This text is comprised of compiled experimental results for the expressed use of communications engineers, designers of planned Land Mobile Satellite Systems (LMSS), and modelers of propagation effects. The results presented here are mostly derived from systematic studies of propagation effects for LMSS geometries in the United States associated with rural and suburban regions Where applicable, the authors also draw liberally from the results of other related investigations in Canada, Europe, and Australia. Frequencies near 1500 MHz are emphasized to coincide with frequency bands allocated for LMSS by the International Telecommunication Union, although earlier experimental work at 870 MHz is also included.

33

ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

N92-11252*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Orl.

THE 23 TO 300 C DEMAGNETIZATION RESISTANCE OF SAMARIUM-COBALT PERMANENT MAGNETS

JANIS M. NIEDRA (Sverdrup Technology, Inc., Brook Park, OH.) and ERIC OVERTON Washington Nov. 1991 (RTOP 590-13-11)

(NASA-TP-3119; E-6123; NAS 1.60:3*19) Avail: CASI HC A03/MF A01

COBALT, DEMAGNETIZATION, PERMANENT MAGNETS. SAMARIUM, TEMPERATURE EFFECTS

N92-20492*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

TIME-FREQUENCY REPRESENTATION OF A HIGHLY NONSTATIONARY SIGNAL VIA THE MODIFIED WIGNER DISTRIBUTION

T. F. ZOLADZ, J. H. JONES, and J. JONG (Wyle Labs., Inc., Huntsville, AL.) Washington Mar. 1992 35 p (NASA-TP-3215; M-685; NAS 1.60:3215) Avail: CASI HC A03/MF A01

HIGH FREQUENCIES, SIGNAL ANALYSIS, SIGNAL PROCESSING, SPACE SHUTTLE MAIN ENGINE

34

FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics, fluidics; mass transfer; and ablation cooling.

N91-15499*# National Aeronautics and Space Administration Ames Research Center, Moffett Field, CA.

FLOW-INDUCED RESONANCE OF SCREEN-COVERED **CAVITIES**

PAUL T. SODERMAN Oct. 1990 48 p. (RTOP 505-61-11)

(NASA-TP-3052; A-89252; NAS 1.60:3052) Avail CASI HC A03/MF A01

ACOUSTIC EXCITATION, AEROACOUSTICS, CAVITIES. PRESSURE OSCILLATIONS, RESONANT VIBRATION, SCREENS. VISCOUS FLOW, VORTEX SHEDDING

N91-17310°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

RELATIVE EFFICIENCY AND ACCURACY OF TWO
NAVIER-STOKES CODES FOR SIMULATING ATTACHED
TRANSONIC FLOW OVER WINGS

DARYL L. BONHAUS and STEPHEN F. WORNOM Washington Feb. 1991 125 p

(RTOP 505-62-31-06)

(NASA-TP-3061; L-16811; NAS 1.60:3061) Avail: CASI HC

A06/MF A02

COMPUTATIONAL GRIDS, FLOW DISTRIBUTION, NAVIER-STOKES EQUATION, PRESSURE DISTRIBUTION, TRANSONIC FLOW, WING PROFILES

N91-18381*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AN UPWIND-BIASED SPACE MARCHING ALGORITHM FOR SUPERSONIC VISCOUS FLOW

FRANCIS A. GREENE Washington Mar. 1991 44 p (RTOP 506-40-91-01)

(NASA-TP-3068; L-16788; NAS 1.60:3068) Avail: CASI HC A03/MF A01

ALGORITHMS, FLOW DISTRIBUTION, SPATIAL MARCHING, SUPERSONIC FLOW, VISCOUS FLOW

N91-20418*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

HYPERVELOCITY ATMOSPHERIC FLIGHT: REAL GAS FLOW FIELDS

JOHN T. HOWE Nov. 1990 249 p (RTOP 506-40-91)

(NASA-RP-1249; A-90143; NAS 1.61:1249) Avail: CASI HC A11/MF A03

Flight in the atmosphere is examined from the viewpoint of including real gas phenomena in the flow field about a vehicle flying at hypervelocity. That is to say, the flow field is subject not only to compressible phenomena, but is dominated by energetic phenomena. There are several significant features of such a flow field. Spatially, its composition can vary by both chemical and elemental species. The equations which describe the flow field include equations of state and mass, species, elemental, and electric charge continuity; momentum; and energy equations. These are nonlinear, coupled, partial differential equations that were reduced to a relatively compact set of equations of a self-consistent manner (which allows mass addition at the surface at a rate comparable to the free-stream mass flux). The equations and their inputs allow for transport of these quantities relative to the mass-averaged behavior of the flow field. Thus transport of mass by chemical, thermal, pressure, and forced diffusion; transport of momentum by viscosity; and transport of energy by conduction, chemical considerations, viscosity, and radiative transfer are included. The last of these complicate the set of equations by making the energy equation a partial integrodifferential equation. Each phenomenon is considered and represented mathematically by one or more developments. The coefficients which pertain are both thermodynamically and chemically dependent. Solutions of the equations are presented and discussed in considerable detail, with emphasis on severe energetic flow fields. For hypervelocity flight in low-density environments where gaseous reactions proceed at finite rates, chemical nonequilibrium is considered and some illustrations are presented. Finally, flight where the flow field may be out of equilibrium, both chemically and thermodynamically, is presented briefly.

N91-22509*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

NUMERICAL STUDIES OF CONVECTIVE COOLING FOR A LOCALLY HEATED SKIN

STEPHEN J. SCOTTI Washington May 1991 22 p (RTOP 506-43-71-04)

(NASA-TP-3100; L-16867; NAS 1 60:3100) Avail: CASI HC A03/MF A01

CONVECTIVE HEAT TRANSFER, COOLANTS,

MATHEMATICAL MODELS, NATIONAL AEROSPACE PLANE PROGRAM, SKIN TEMPERATURE (NON-BIOLOGICAL), THERMAL PROTECTION

N91-24542*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

SATURATION POINT MODEL FOR THE FORMATION OF METAL NITRATE IN NITROGEN TETROXIDE OXIDIZER

PAUL R. TORRANCE Washington May 1991 19 p
(NASA-TP-3107; S-630; NAS 1.60:3107) Avail: CASI HC

DIFFUSION, NITRATES, NITROGEN TETROXIDE, OXIDIZERS, SATURATION (CHEMISTRY)

A03/MF A01

N91-25352*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

AEROACOUSTIC AND AERODYNAMIC APPLICATIONS OF THE THEORY OF NONEQUILIBRIUM THERMODYNAMICS

W. CLIFTON HORNE (National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.), CHARLES A. SMITH (National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.), and KRISHNAMURTY KARAMCHETI (Florida Agricultural and Mechanical Univ., Tallahassee.) Washington Jun. 1991 26 p (RTOP 505-61-00)

(NASA-TP-3118; A-90084; NAS 1.60;3118) Avail: CASI HC A03/MF A01

AEROACOUSTICS, AERODYNAMIC CHARACTERISTICS, ENERGY DISSIPATION, ENTROPY, FLOW STABILITY, NONEQUILIBRIUM THERMODYNAMICS, THERMODYNAMIC EQUILIBRIUM, VISCOUS FLOW

N92-10161*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

NUMERICAL ANALYSIS AND SIMULATION OF AN ASSURED CREW RETURN VEHICLE FLOW FIELD

K. JAMES WEILMUENSTER, ROBERT E. SMITH, JR., and FRANCIS A. GREENE Washington Sep. 1991 37 p (RTOP 506-40-91-01)

(NASA-TP-3101; L-16836; NAS 1.60:3101) Avail: CASI HC A03/MF A01

FLOW DISTRIBUTION, HYPERSONIC FLOW, INVISCID FLOW, LIFTING REENTRY VEHICLES, RESCUE OPERATIONS, SPACE STATION FREEDOM

N92-11285*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

CALCULATIONS AND CURVE FITS OF THERMODYNAMIC AND TRANSPORT PROPERTIES FOR EQUILIBRIUM AIR TO 30000 K

ROOP N. GUPTA (Vigyan Research Associates, Inc., Hampton, VA.), KAM-PUI LEE, RICHARD A. THOMPSON, and JERROLD M. YOS (Textron Defense Systems, Wilmington, MA.) Washington Oct. 1991 76 p (RTOP 506-40-91-01)

(NASA-RP-1260; L-16907; NAS 1.61:1260) Avail: CASI HC A05/MF A01

A self-consistent set of equilibrium air values were computed for enthalpy, total specific heat at constant pressure, compressibility factor, viscosity, total thermal conductivity, and total Prandtl number from 500 to 30,000 K over a range of 10(exp -4) atm to 10(exp 2) atm. The mixture values are calculated from the transport and thermodynamic properties of the individual species provided in a recent study by the authors. The concentrations of the individual species, required in the mixture relations, are obtained from a free energy minimization calculation procedure. Present calculations are based on an 11-species air model. For pressures less than 10(exp -2) atm and temperatures of about 15,000 K and greater, the concentrations of N(++) and O(++) become important, and consequently, they are included in the calculations determining the various properties. The computed properties are curve fitted as a function of temperature at a constant value of pressure. These curve fits reproduce the computed values within 5 percent for the entire temperature range considered here at specific pressures and provide an efficient means for computing the flowfield properties of equilibrium air, provided the elemental composition remains constant at 0.24 for oxygen and 0.76 for nitrogen by mass.

N92-11299*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

MODELING OF THE HEAT TRANSFER IN BYPASS TRANSITIONAL BOUNDARY-LAYER FLOWS

FREDERICK F. SIMON and CRAIG A. STEPHENS (PRC Kentron, Inc., Edwards, CA.) Washington Oct. 1991 15 p. (RTOP 505-62-52)

(NASA-TP-3170; E-6046; NAS 1.60:3170) Avail: CASI HC A03/MF A01

BOUNDARY LAYER FLOW, BOUNDARY LAYER TRANSITION, BYPASSES, COMPUTERIZED SIMULATION, HEAT TRANSFER. K-EPSILON TURBULENCE MODEL, LEADING EDGES, PREDICTION ANALYSIS TECHNIQUES, TRANSITION FLOW

National Aeronautics and Space Administration.

Langley Research Center, Hampton, VA.
SIMULATION OF REAL-GAS EFFECTS ON PRESSURE DISTRIBUTIONS FOR AEROASSIST FLIGHT EXPERIMENT VEHICLE AND COMPARISON WITH PREDICTION

JOHN R. MICOL. Apr. 1992 70 p. (RTOP 506-40-41-01)

(NASA-TP-3157; L-16923; NAS 1.60:3157) Avail: CASI HC A04/MF A01

AEROASSIST, BASE PRESSURE, BLUNT BODIES, DENSITY DISTRIBUTION, FOREBODIES, HYPERSONIC SPEED, ORBIT TRANSFER VEHICLES, PRESSURE DISTRIBUTION, REAL GASES, SIMULATION

National Aeronautics and Space Administration. N92-24514*# Lewis Research Center, Cleveland, OH.

WORKSHOP ON ENGINEERING TURBULENCE MODELING LOUIS A. POVINELLI, ed., W. W. LIOU, ed., A. SHABBIR, ed., and T.-H. SHIH, ed. Mar. 1992 510 p Workshop held in Cleveland, OH, 21-22 Aug. 1991 (NASA ORDER C-99066-G; RTOP 505-62-21)

(NASA-CP-10088; E-6830; ICOMP-92-02; CMOTT-92-02; NAS

1.55:10088) Avail: CASI HC A22/MF A04 COMPUTATIONAL FLUID DYNAMICS. CONFERENCES. PROPULSION, TURBULENCE, TURBULENCE MODELS

National Aeronautics and Space Administration. N92-24797*#

Langley Research Center, Hampton, VA. A SIMPLIFIED METHOD FOR THERMAL ANALYSIS OF A COWL LEADING EDGE SUBJECT TO INTENSE LOCAL

SHOCK-WAVE-INTERFERENCE HEATING DAVID M. MCGOWAN, CHARLES J. CAMARDA, and STEPHEN J. SCOTTI Washington Mar. 1992 40 p. (RTOP 506-43-31-04)

(NASA-TP-3167; L-16505; NAS 1.60:3167) Avail: CASI HC

AERODYNAMIC HEATING, AERODYNAMIC INTERFERENCE, COWLINGS, HEAT AFFECTED ZONE, LEADING EDGES, SHOCK WAVES, THERMAL ANALYSIS

N92-31281*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STAGNATION-POINT HEAT-TRANSFER RATE PREDICTIONS AT AEROASSIST FLIGHT CONDITIONS

ROOP N. GUPTA, JIM J. JONES (Analytical Mechanics Associates, Inc., Hampton, VA.), and WILLIAM C. ROCHELLE (Lockheed Engineering and Sciences Co., Houston, TX.) Sep. 1992 21 p. (RTOP 506-40-91-02)

(NASA-TP-3208; L-17039; NAS 1.60:3208) Avail: CASI HC A03/MF A01

AEROASSIST, COMPUTATIONAL FLUID DYNAMICS, FLIGHT CONDITIONS, HYPERSONIC FLOW, HYPERSONIC HEAT

TRANSFER, NAVIER-STOKES EQUATION, RADIATIVE HEAT TRANSFER, REACTING FLOW, SHOCK LAYERS, STAGNATION POINT, VISCOUS FLOW

N92-32245*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

TENTH WORKSHOP FOR COMPUTATIONAL FLUID DYNAMIC **APPLICATIONS IN ROCKET PROPULSION, PART 2**

R. W. WILLIAMS, comp. Washington Jul. 1992 755 p Workshop held in Huntsville, AL, 28-30 Apr. 1992 (NASA-CP-3163-PT-2; M-693-PT-2; NAS 1.55:3163-PT-2) Avail: CASI HC A99/MF A05

COMPUTATIONAL FLUID DYNAMICS, CONFERENCES, HYDROGEN OXYGEN ENGINES, LIQUID PROPELLANT ROCKET ENGINES, PROPULSION SYSTEM CONFIGURATIONS, ROCKET ENGINE DESIGN, SOLID PROPELLANT ROCKET ENGINES, SPACE SHUTTLE MAIN ENGINE, SPACECRAFT PROPULSION

N92-32278*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

TENTH WORKSHOP FOR COMPUTATIONAL FLUID DYNAMIC APPLICATIONS IN ROCKET PROPULSION, PART 1

R. W. WILLIAMS, comp. Washington Jul. Workshop held in Huntsville, AL, 28-30 Apr. 1992 721 p

(NASA-CP-3163-PT-1; M-693-PT-1; NAS 1.55:3163-PT-1) Avail: CASI HC A99/MF A05

COMPUTATIONAL FLUID DYNAMICS, CONFERENCES, GRID GENERATION (MATHEMATICS), HEAT TRANSFER, LIQUID PROPELLANT ROCKET ENGINES, PROPELLANT COMBUSTION, SOLID PROPELLANT ROCKET ENGINES, SPACECRAFT PROPULSION, TURBOMACHINERY

35

INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages, detectors; cameras and photographic supplies; and holography.

N91-14574'# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

HIGH RESOLUTION, HIGH FRAME RATE VIDEO **TECHNOLOGY**

Washington May 1990 102 p Workshop held in Cleveland. OH, 11-12 May 1988 List of attendees included as supplement (RTOP 694-03-03)

(NASA-CP-3080; E-5044; NAS 1.55:3080) Avail: CASI HC A06/MF A02

DATA COMPRESSION, DATA TRANSMISSION, FRAMES PROCESSING), HIGH RESOLUTION. IMAGE PROCESSING, IMAGING TECHNIQUES, VIDEO DATA

N91-22538*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

LOW-ENERGY POSITRON FLUX GENERATOR FOR MICROSTRUCTURAL CHARACTERIZATION OF THIN FILMS

JAG J. SINGH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), ABE EFTEKHARI (Analytical Services and Materials, Inc., Hampton, VA.), and TERRY L. ST.CLAIR Washington May 1991 19 p. (RTOP 506-43-21-05)

(NASA-TP-3074; L-16881; NAS 1.60:3074) Avail: CASI HC A03/MF A01

THICKNESS, INSULATORS. MICROSTRUCTURE. POSITRON ANNIHILATION, SPECTROSCOPY, THIN FILMS, N92-292281# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SIXTEENTH INTERNATIONAL LASER RADAR CONFERENCE, PART 1

M. PATRICK MCCORMICK, ed. Washington Jul. 1992 407 p Conference held in Cambridge, MA, 20-24 Jul. 1992: sponsored by NASA, Langley Research Center, AFOSR, AF Phillips Lab., American Meteorological Society, and the Optical Society of America

(RTOP 665-45-20-21)

(NASA-CP-3158-PT-1; L-17126-PT-1; NAS 1.55:3158-PT-1)

Avail: CASI HC A18/MF 404

ATMOSPHERIC CIRCULATION, ATMOSPHERIC EFFECTS, BACKSCATTERING, CLIMATE CHANGE, **IMAGING** TECHNIQUES, OPTICAL RADAR, RADAR MEASUREMENT, REMOTE SENSING, RESEARCH FACILITIES, STRATOSPHERE, **VOLCANOES**

N92-31013*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
SIXTEENTH INTERNATIONAL LASER RADAR CONFERENCE,

M. PATRICK MCCORMICK, ed. Washington Jul. 1992 361 p Conference held in Cambridge, MA, 20-24 Jul. 1992; sponsored by NASA. Langley Research Center, AFOSR, AF Phillips Lab., American Meteorological Society, and the Optical Society of America

(RTOP 665-45-20-21)

(NASA-CP-3158-PT-2; L. 17126-PT-2; NAS 1.55:3158-PT-2)

Avail: CASI HC A16/MF A03

CONFERENCES, DOPPLER RADAR, IMAGING TECHNIQUES, LASERS, MESOSPHERE, OPTICAL RADAR, OZONE, REMOTE SENSING, TROPOSPHERE

37

MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

N91-12956*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

EXPERIMENTAL AND ANALYTICAL EVALUATION OF EFFICIENCY OF HELICOPTER PLANETARY STAGE

TIMOTHY L. KRANTZ Nov. 1990 20 p Prepared in cooperation with Army Aviation Systems Command, Cleveland, OH (DA PROJ. 1L1-6221147-A; RTOP 505-63-51)

(NASA-TP-3063; E-5268; NAS 1.60:3063; AVSCOM-TR-90-C-001) Avail: CASI HC A03/MF A01

HELICOPTER PROPELLER DRIVE, HELICOPTERS, POWER LOSS, SYSTEM EFFECTIVENESS, TRANSMISSIONS (MACHINE **ELEMENTS**)

N91-30531*# Ohio State Univ., Columbus. Dept. of Mechanical Engineering.

FUNDAMENTALS OF FLUID LUBRICATION

BERNARD J. HAMROCK Washington NASA Aug. 1991 670 p Sponsored by NASA, Lewis Research Center (RTOP 505-90-21)

(NASA-RP-1255; E-3758; NAS 1.61:1255) Avail: CASI HC A99/MF A06

The aim is to coordinate the topics of design, engineering dynamics, and fluid dynamics in order to aid researchers in the area of fluid film lubrication. The lubrication principles that are covered can serve as a basis for the engineering design of machine elements. The fundamentals of fluid film lubrication are presented clearly so that students that use the book will have confidence in their ability to apply these principles to a wide range of lubrication situations. Some guidance on applying these fundamentals to the solution of engineering problems is also provided

N91-30540°# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

THE EFFECT OF BANDWIDTH ON TELEROBOT SYSTEM **PERFORMANCE**

MARK UEBEL (Maryland Univ., College Park.) MICHAEL S ALI (National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD.), and IOANNIS MINIS (Maryland Univ., College Park.) Sep. 1991 44 p (NASA-TP-3152; REPT-91E02561; NAS 1.60:3152) Avail: CASI HC A03/MF A01

BANDWIDTH, FEEDBACK CONTROL, ROEDT CONTROL, TELEROBOTICS

N92-10195*# National Aeronautics and Space Administration Lewis Research Center, Cleveland, OH

A METHOD FOR DETERMINING SPIRAL-BEVEL GEAR TOOTH GEOMETRY FOR FINITE ELEMENT ANALYSIS

ROBERT F. HANDSCHUH and FAYDOR L. LITVIN (Illinois Univ.) Chicago.) Aug. 1991 16 p. Original contains color illustrations (DA PROJ. 1L1-62211-A-47-A; RTOP 505-63-51)

(NASA-TP-3096; E-5837; NAS 1.60:3096; AVSCOM-TR-91-C-020; AD-A242332) Avail: CASI HC A03/MF A01; 1 functional color

APPLICATIONS PROGRAMS (COMPUTERS), COMPUTER AIDED DESIGN, FINITE ELEMENT METHOD, GEAR TEETH, MATHEMATICAL MODELS, SURFACE GEOMETRY, THREE DIMENSIONAL MODELS

N92-14346'# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

ROTORDYNAMIC INSTABILITY PROBLEMS IN HIGH-PERFORMANCE TURBOMACHINERY, 1990

Washington Oct. 1991 458 p Workshop held in College Station, TX, 21-23 May 1990; sponsored by Texas A and M Univ. and NASA. Lewis Research Center (RTOP 553-13-00)

(NASA-CP-3122; E-5628; NAS 1.55:3122) Avail: CASI HC A20/MF A04

CONFERENCES. ROTOR DYNAMICS. STRUCTURAL VIBRATION, TURBOMACHINERY, VIBRATION DAMPING

N92-30396*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

DEVELOPMENT OF A FULL-SCALE TRANSMISSION TESTING PROCEDURE TO EVALUATE ADVANCED LUBRICANTS

DAVID G. LEWICKI, HARRY J. DECKER, and JOHN T. SHIMSKI (Naval Air Propulsion Test Center, Trenton, NJ.) Aug. 1992

(DA PROJ. 1L1-62211-A-47-A; RTOP 505-63-36)

(NASA-TP-3265; E-6531; NAS 1.60:3265; AVSCOM-TR-91-C-026) Avail: CASI HC A03/MF A01

GEARS, HELICOPTER PROPELLER DRIVE, LUBRICANT TESTS, LUBRICATING OILS, LUBRICATION, POTARY WINGS. TEST STANDS, TRANSMISSIONS (MACHINE ELEMENTS), WEAR **TESTS**

38

QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

N91-14618"# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA AXISYMMETRIC SHELL ANALYSIS OF THE SPACE SHUTTLE SOLID ROCKET BOOSTER FIELD JOINT

MICHAEL F. NEMETH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.) and MELVIN S. ANDERSON (Old Dominion Univ., Norfolk, VA.) Washington Jan. 1991 55 p (RTOP 505-63-01-08)

(NASA-TP-3033; L-16746; NAS 1.60:3033) Avail: CASI HC A04/MF A01

DYNAMIC STRUCTURAL ANALYSIS, JOINTS (JUNCTIONS), O RING SEALS, SOLID PROPELLANT ROCKET ENGINES, SPACE SHUTTLE BOOSTERS

39

STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress

N91-10301*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

RESEARCH IN STRUCTURES, STRUCTURAL DYNAMICS AND MATERIALS, 1990

JEAN-FRANCOIS M. BARTHELEMY, comp. and AHMED K. NOOR, comp. (George Washington Univ., Hampton, VA.) Washington Mar. 1990 283 p The 31st conference was held in Long Beach, CA, 2-4 Apr. 1990; sponsored by AIAA, ASME, ASCE, AHS, and ASC

(RTOP 505-63-01-07)

(NASA-CP-3064; L-16735; NAS 1.55:3064) Avail: CASI HC A13/MF A03

BEAMS (SUPPORTS), BUCKLINC, COMPOSITE STRUCTURES, CONFERENCES, CONTROL SYSTEMS DESIGN, DYNAMIC RESPONSE, DYNAMIC STRUCTURAL ANALYSIS, LOADS (FORCES)

N91-10328*# National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards, CA. DESIGN OF CONTROL LAWS FOR FLUTTER SUPPRESSION

BASED ON THE AERODYNAMIC ENERGY CONCEPT AND COMPARISONS WITH OTHER DESIGN METHODS

ELI NISSIM (Technion - Israel Inst. of Tech., Haifa.) Oct. 1990 59 p Previously anounced in IAA as A89-31100 (RTOP 505-66-71)

(NASA-TP-3056; H-1549; NAS 1.60:3056; AIAA PAPER 89-1212) Avail: CASI HC A04/MF A01

AEROELASTIC RESEARCH WINGS, CONTROL SYSTEMS DESIGN, CONTROL THEORY, ENERGY METHODS, FLUTTER ANALYSIS, VIBRATION DAMPING

N91-13750°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FREE VIBRATIONS OF THIN-WALLED SEMICIRCULAR GRAPHITE-EPOXY COMPOSITE FRAMES

AHMED K NOOR (National Aero autics and Space Administration. Langley Research Center, Hampton, VA.), HUEY D. CARDEN (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and JEANNE M. PETERS (Joint Inst. for Advancement of Flight Sciences. Hampton, VA.) Washington Nov. 1590 43 p. Original contains color illustrations (NAG1-730; RTOP 505-63-01-11)

(NASA-TP-3010; L-16726; NAS 1.60:3010) Avail: CASI HC A03/MF A01; 4 functional color pages

COMPOSITE STRUCTURES, FRAMES, GRAPHITE-EPOXY COMPOSITES, LAMINATES, STRUCTURAL ANALYSIS, STRUCTURAL VIBRATION, VIBRATION EFFECTS

N91-13751*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FAILURE BEHAVIOR OF GENERIC METALLIC AND COMPOSITE AIRCRAFT STRUCTURAL COMPONENTS UNDER CRASH LOADS

HUEY D. CARDEN and MARTHA P. ROBINSON Washington Tov. 1990 48 p

(RTOP 505-63-01-11)

(NASA-RP-1239; L-16744; NAS 1.61:1239) Avail: CASI HC A03/MF A01

Failure behavior results are presented from crash dynamics research using concepts of aircraft elements and substructure not necessarily designed or optimized for energy absorption or crash loading considerations. To achieve desired new designs incorporating improved energy absorption capabilities often requires an understanding of how more conventional designs behave under crash loadings. Experimental and analytical data are presented which indicate some general trends in the failure behavior of a class of composite structures including individual fuselage frames, skeleton subfloors with stringers and floor beams without skin covering, and subfloors with skin added to the frame-stringer arrangement. Although the behavior is complex, a strong similarity in the static/dynamic failure behavior among these structures is illustrated through photographs of the experimental results and through analytical data of generic composite structural models.

Author

N91-16413*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

PLATE AND BUTT-WELD STRESSES BEYOND ELASTIC LIMIT, MATERIAL AND STRUCTURAL MODELING
V. VERDERAIME Washington Jan. 1991 63 p

V. VEHDEHAIME Washington Jan. 1991 63 p (NASA-TP-3075; M-654; NAS 1.60:3075) Avail: CASI HC A04/MF A01

AXIAL LOADS, BENDING, SAFETY FACTORS, STRESS ANALYSIS, STRESS-STRAIN RELATIONSHIPS. STRUCTURAL ANALYSIS, WELDED JOINTS

N91-20503*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

BUCKLING AND VIBRATION ANALYSIS OF A SIMPLY SUPPORTED COLUMN WITH A PIECEWISE CONSTANT CROSS SECTION

MARK S. LAKE and MARTIN M. MIKULAS, JR. Washington Mar. 1991 13 p

(RTOP 506-43-41-02)

(NASA-TP-3090; L-16854; NAS 1.60:3090) Avail: CASI HC A03/MF A01

BUCKLING, COLUMNS (SUPPORTS). DYNAMIC STRUCTURAL ANALYSIS, STRUCTURAL STABILITY, STRUCTURAL VIBRATION, TAPERING

N91-20506*# Computer Software Management and Information Center, Athens, GA.

NINETEENTH NASTRAN (R) USERS' COLLOQUIUM

Washington NASA Apr. 1991 194 p Colloquium held in Williamsburg, VA, 22-26 Apr. 1991 Sponsored by NASA, Washington

(NASA-CP-3111; NAS 1.55:3111) Avail: CASI HC A09/MF A03 CONFERENCES, FINITE ELEMENT METHOD, NASTRAN, STRUCTURAL ANALYSIS

N91-21556*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

DETERMINATION OF THE FLIGHT HARDWARE CONFIGURATION OF AN ENERGY ABSORBING ATTENUATOR FOR THE PROPOSED SPACE STATION CREW AND EQUIPMENT TRANSLATION AID CART

EDWIN L. FASANELLA (Lockheed Engineering and Sciences Co., Hampton, VA.), KAREN E. F' KSON (Army Aviation Research and Development Command, Hampton, VA.), LISA E. JONES (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and JOHN E. TETER, JR. 1991 58 p.

(RTOP 505-63-01-11)

(NASA-TP-3084; L-16852; NAS 1.60 3084; AD-A235901) Avail: CASI HC A04/MF A01

ATTENUATORS, BRAKES (FOR ARRESTING MOTION), CARTS, COLUMNS (SUPPORTS), HONEYCOMB STRUCTURES, RAIL TRANSPORTATION, SHOCK ABSORBERS, SPACE STATIONS

N91-22576*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA

COMPUTATIONAL METHODS FOR FRICTIONLESS CONTACT WITH APPLICATION TO SPACE SHUTTLE ORBITER **NOSE-GEAR TIRES**

KYUN O. KIM (George Washington Univ., Hampton, VA.), JOHN A. TANNER (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), AHMED K. NOOR (Virginia Univ., Charlottesville.), and MARTHA P. ROBINSON 36 p Washington May 1991 Original contains color illustrations

(RTOP 505-63-41-02)

(NASA-TP-3073; L-16750; NAS 1.60:307?) Avail: CASI HC

A03/MF A01; 2 functional color pages

AIRCRAFT TIRES, COMPUTATION, FINITE ELEMENT METHOD, FRICTIONLESS ENVIRONMENTS, LANDING GEAR, ROCKET NOSE CONES, ROLLING CONTACT LOADS, SPACE SHUTTLE ORBITERS, VARIATIONAL PRINCIPLES

N91-24603*# Jet Propulsion Lab., California Inst. of Tech., Pasadena.

THE 25TH AEROSPACE MECHANISMS SYMPOSIUM

May 1991 346 p. Symposium held in Pasadena, CA, 8-10 May 1991; sponsored by NASA, Washington, California Inst. of Tech., and LMSC (NAS7-918)

(NASA-CP-3113; NAS 1.55:3113) Avail: CASI HC A15/MF A03

ACTUATORS, AEROSPACE ENGINEERING, CONFERENCES, CRYOGENICS, GROUND SUPPORT EQUIPMENT, LATCHES, ROBOTICS, TRIBOLOGY, VACUUM

N92-18053*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EFFECT OF CRASH PULSE SHAPE ON SEAT STROKE REQUIREMENTS FOR LIMITING LOADS ON OCCUPANTS OF

HUEY D. CARDEN Washington Feb. 1992 23 p. (RTOP 505-63-50-09)

(NASA-TP-3126; L-16941; NAS 1.60:3126) Avail: CASI HC A03/MF A01

DYNAMIC CRASHWORTHINESS. GENERAL AVIATION AIRCRAFT, LOADS (FORCES), SEATS, SHAPES

N92-19355*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

STRUCTURAL DETERMINISTIC SAFETY FACTORS **SELECTION CRITERIA AND VERIFICATION**

V. VERDERAIME Feb. 1292 50 p

(NASA-TP-3203; M-683; NAS 1.60:3203) Avail: CASI HC A03/MF A01

METALS, PROBABILITY THEORY, RELIABILITY ANALYSIS, SAFETY FACTORS, STANDARD DEVIATION, STRESS STRUCTURAL STRUCTURAL ANALYSIS. FAILURE. RELIABILITY

National Aeronautics and Space Administration. Ma/shall Space Flight Center, Huntsville, AL.

THE EFFECT OF ACCELERATION VERSUS DISPLACEMENT METHODS ON STEADY-STATE BOUNDARY FORCES

D. S. MCGHEE Washington NASA, Marshall Space Flight Center Apr. 1992 31 p (NASA-TP-3218; M-686; NAS 1.60:3218) Avail: CASI HC

A03/MF A01

CONSTRAINTS, COUPLED MODES, DYNAMIC STRUCTURAL ANALYSIS, LOADS (FORCES), MODAL RESPONSE STEADY STATE, TRUNCATION ERRORS

N92-22227*# National Aeronautics and Space Administration Lewis Research Center, Cleveland, OH

IMPROVED ACCURACY FOR FINITE ELEMENT STRUCTURAL ANALYSIS VIA A NEW INTEGRATED FORCE METHOD

SURYA N. PATNAIK (Ohio Aerospace Inst., Brook Park.), DALE A. HOPKINS, ROBERT A. AIELLO, and LASZLO BERKE Apr. 1992 28 p (RTOP 505-63-5B)

(NASA-TP-3204; E-5638, NAS 1.60:3204) Avail. CASt HC A03/MF A01

COMPUTER PROGRAMS, FINITE ELEMENT METHOD. MATHEMATICAL MODELS, MEASURE AND INTEGRATION, SOLID MECHANICS, STRESS-STRAIN RELATIONSHIPS, STRUCTURAL ANALYSIS

N92-23115"# National Aeronautics and Space Administration Langley Research Center, Hampton, VA

EXPERIMENTAL BEHAVIOR OF GRAPHITE-EPOXY Y-STIFFENED SPECIMENS LOADED IN COMPRESSION

P. DANIEL SYDOW and MARK J. SHUART May 1992 20 p. (RTOP 505-63-50-08)

(NASA-TP-3171; L-16918; NAS 1.60:3171) Avail: CASI HC A03/MF A01

COMPRESSION TESTS, GRAPHITE-EPOXY COMPOSITES. REINFORCED PLATES, STIFFENING, WEBS (SUPPORTS)

National Aeronautics and Space Administration Langley Research Center, Hampton, VA

THERMAL AND STRUCTURAL TESTS OF RENE 41 HONEYCOMB INTEGRAL-TANK CONCEPT FOR FUTURE SPACE TRANSPORTATION SYSTEMS

JOHN L. SHIDELER, ROGER A. FIELDS, LAWRENCE F. REARDON, and LESLIE GONG (National Aeronautics and Space Administration. Hugh L. Dryden Flight Research Facility, Edwards. CA.) May 1992 77 p (RTOP 506-43-71-05)

(NASA-TP-3145; L-16752; NAS 1.60:3145) Avail CASI HC A05/MF A01

HIGH TEMPERATURE TESTS, HONEYCOMB STRUCTURES. RENE 41, SANDWICH STRUCTURES, STRAIN MEASUREMENT, STRESS ANALYSIS, THERMAL ANALYSIS

N92-24324*# Computer Software Management and Information Center, Athens, GA.

TWENTIETH NASTRAN (R) USERS' COLLOQUIUM

Washington NASA Apr. 1992 188 p Colloquium held in Colorado Springs, CO, 27 Apr. - 1 May 1992 Sponsored by NASA, Washington

(NASA-CP-3145; NAS 1.55:3145) Avail: CASI HC A09/MF A02 FINITE ELEMENT METHOD, NASTRAN, STRUCTURAL ANALYSIS

N92-24546*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

STIFFNESS AND STRENGTH TAILORING IN UNIFORM SPACE-FILLING TRUSS STRUCTURES

MARK S. LAKE Apr. 1992 30 p Presented at the Ninth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, Lake Tahoe, NV, 4-7 Nov. 1991 (RTOP 506-43-41-02)

(NASA-TP-3210; L-17001; NAS 1.60:3210) Avail: CASI HC A03/MF A01

CRYSTALLOGRAPHY, LOADS (FORCES), SPACECRAFT STRUCTURES. STIFFNESS, STRUCTURAL STRUCTURAL DESIGN CRITERIA, TRUSSES

N92-25067°# National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD.

THE 26TH AEROSPACE MECHANISMS SYMPOSIUM

Washington May 1992 386 p. Symposium held in Greenbelt,

MD, 13-15 May 1992; sponsored by NASA, Washington, California Inst. of Tech., and LMSC

(NASA-CP-3147; REPT-92B00052; NAS 1.55:3147) Avail: CASI HC A17/MF A04

ACTUATORS, AEROSPACE ENGINEERING, CONFERENCES, CONNECTORS, LARGE SPACE STRUCTURES, LATCHES

N92-25911*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

COMPUTATIONAL STRUCTURES TECHNOLOGY FOR AIRFRAMES AND PROPULSION SYSTEMS

AHMED K. NOOR, comp. (Virginia Univ., Hampton.), JERROLD M. HOUSNER, comp., JAMES H. STARNES, JR., comp., DALE A. HOPKINS, comp., and CHRISTOS C. CHAMIS, comp. (National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.) Washington May 1992 516 p Workshops held in Cleveland, OH, 26-27 Jun. 1991 and in Hampton, VA, 4-5 Sep. 1991; sponsored by NASA, Washington and Virginia Univ., Hampton

(RTOP 505-63-53-01)

(NASA-CP-3142; L-17049; NAS 1.55:3142) Avail: CASI HC A22/MF A04

AIRCRAFT DESIGN, AIRCRAFT STRUCTURES, AIRFRAMES, CIVIL AVIATION, COMPUTER AIDED DESIGN, CONFERENCES, PROPULSION SYSTEM CONFIGURATIONS, SPACECRAFT DESIGN. SPACECRAFT STRUCTURES, STRUCTURAL ANALYSIS, STRUCTURAL DESIGN, SUPERSONIC TRANSPORTS

N92-25997*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STRESS CONCENTRATIONS FOR STRAIGHT-SHANK AND COUNTERSUNK HOLES IN PLATES SUBJECTED TO TENSION, BENDING, AND PIN LOADING

K. N. SHIVAKUMAR (Analytical Services and Materials, Inc., Hampton, VA.) and J. C. NEWMAN, JR. Jun. 1992 36 p (RTOP 505-63-50-04)

(NASA-TP-3192; L-17027; NAS 1.60:3192) Avail: CASI HC A03/MF A01

BEND TESTS, FINITE ELEMENT METHOD, HOLES (MECHANICS), STRESS CONCENTRATION, TENSILE TESTS, THREE DIMENSIONAL MODELS

N92-26537*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

IDENTIFICATION OF LINEAR SYSTEMS BY AN ASYMPTOTICALLY STABLE OBSERVER

MINH Q. PHAN, LUCAS G. HORTA, JER-NAN JUANG, and RICHARD W. LONGMAN (Columbia Univ., New York, NY.) Jun. 1992 69 p

(RTOP 590-14-61-01)

(NASA-TP-3164; L-16940; NAS 1.60:3164) Avail: CASI HC A04/MF A01

EIGENVALUES, LINEAR SYSTEMS, MARKOV PROCESSES, NUMERICAL STABILITY, SYSTEM IDENTIFICATION

N92-26669*# National Aeronautics and Space Administration.

Marshall Space Flight Center, Huntsville, AL.

EFFECT OF TYPE OF LOAD ON STRESS ANALYSIS OF THIN-WALLED DUCTS

J. B. MIN and P. K. AGGARWAL Jun. 1992 13 p (NASA-TP-3248; M-688; NAS 1.60:3248) Avail: CASI HC

DUCTS, LOADS (FORCES), PIPES (TUBES), SPACE SHUTTLE MAIN ENGINE, STRESS ANALYSIS, THIN WALLS

N92-27974*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

DÉVELOPMENT OF À TRUSS JOINT FOR ROBOTIC ASSEMBLY OF SPACE STRUCTURES

GEORGE F. PARMA Jul. 1992 31 p (RTOP 472-46-07-17) (NASA-TP-3214; S-763; NAS 1.60:3214) Avail: CA'SI HC A03/MF A01

FASTENERS, LARGE SPACE STRUCTURES, ORBITAL ASSEMBLY, ROBOTS, SPACE COMMERCIALIZATION, SPACE ERECTABLE STRUCTURES, TRUSSES

N92-28620*# National Aeronautics and Space Admin stration. Goddard Space Flight Center, Greenbelt, MD.

TYPES AND CHARACTERISTICS OF DATA FOR GEOMAGNETIC FIELD MODELING

R. A. LANGEL, ed. and R. T. BALDWIN, ed. (Hughes STX, Inc., Lanham, MD.) Washington Jun. 1992 353 p Symposium held in Vienna, Austria, 23 Aug. 1991 (NASA-CP-3153; REPT-92B00061; NAS 1.55:3153) Avail: CASI HC A16/MF A03

CONFERENCES, DATA REDUCTION, GEODESY, GEOMAGNETISM, GEOPHYSICS

N92-30106*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

THE 1991 INTERNATIONAL CONFERENCE ON AGING AIRCRAFT AND STRUCTURAL AIRWORTHINESS

CHARLES E. HARRIS, ed. Washington Jul. 1992 470 p Conference held in Washington, DC, 19-21 Nov. 1991; sponsored by NASA, Washington and FAA (RTOP 538-02-10-01)

(NASA-CP-3160; L-17094; NAS 1.55:3160) Avail: CASI HC A20/MF A04

AGING (MATERIALS), AIRCRAFT INDUSTRY, AIRCRAFT MAINTENANCE, AIRCRAFT PERFORMANCE, AIRCRAFT RELIABILITY, AIRCRAFT STRUCTURES, CONFERENCES, NONDESTRUCTIVE TESTS

N92-31279*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

ANALYSIS AND PREDICTION OF MULTIPLE-SITE DAMAGE (MSD) FATIGUE CRACK GROWTH

D. S. DAWICKE (Analytical Mechanics Associated Inc., Hampton, VA.) and J. C. NEWMAN, JR. Aug. 1992 18 p. (RTOP 505-63-50-04)

(NASA-TP-3231; L-17006; NAS 1.60:3231) Avail: CASI HC A03/MF A01

BOUNDARY ELEMENT METHOD, CRACK PROPAGATION, CRACKING (FRACTURING), DAMAGE, FATIGUE (MATERIALS), STRESS INTENSITY FACTORS

N92-31280*# National Aeronautics and Space Administration.
*Marshall Space Flight Center, Huntsville, AL.

APPLICATIONS OF FEM AND BEM IN TWO-DIMENSIONAL FRACTURE MECHANICS PROBLEMS

J. B. MIN, B. E. STEEVE, and G. R. SWANSON Aug. 1992 23 p

(NASA-TP-3277; M-695; NAS 1.60:3277) Avail: CASI HC A03/MF A01

BOUNDARIES, BOUNDARY ELEMENT METHOD, CRACK TIPS, ELASTIC PLATES, FINITE ELEMENT METHOD, FRACTURE MECHANICS, PLANE STRAIN, STRESS INTENSITY FACTORS

N92-33476*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

INFLUENCE OF MASS MOMENT OF INERTIA ON NORMAL MODES OF PRELOADED SOLAR ARRAY MAST

SASAN C. ARMAND and PAUL LIN (Cleveland State Univ., OH.) Aug. 1992 12 p (RTOP 474-46-10)

(NASA-TP-3273; E-6847; NAS 1.60:3273) Avail: CASI HC A03/MF A01

BEAMS (SUPPORTS), BENDING, DYNAMIC CHARACTERISTICS, DYNAMIC STRUCTURAL ANALYSIS, MOMENTS OF INERTIA, SOLAR ARRAYS, SPACECRAFT ANTENNAS, SPACECRAFT STRUCTURES, VIBRATION MODE

GEOSCIENCES (GENERAL)

N91-20541*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

WEST ANTARCTIC ICE SHEET INITIATIVE. VOLUME 1: SCIENCE AND IMPLEMENTATION PLAN

ROBERT A. BINDSCHADLER, ed. Washington Apr. 1990 61 p Conference held in Greenbelt, MD, 16-18 Oct. 1990 (NSF DPP-90-17562)

(NASA-CP-3115-VOL-1; REPT-91A01040-VOL-1; NAS 1.55;3115-VOL-1) Avail: CASI HC A04/MF A01

ANTARCTIC REGIONS, CLIMATE CHANGE, ICE, ICE ENVIRONMENTS, METEOROLOGICAL PARAMETERS, PREDICTION ANALYSIS TECHNIQUES

N91-26573*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

WEST ANTARCTIC ICE SHEET INITIATIVE. VOLUME 2: DISCIPLINE REVIEWS

ROBERT A. BINDSCHADLER, ed. Washington May 1991 147 p Workshop held in Greenbelt, MD, 16-18 Oct. 1990; sponsored in part by NASA, Washington, and NSF, Washington, DC

(NASA-CP-3115-VOL-2; REPT-91A01040-VOL-2; NAS 1.55:3115-VOL-2) Avail: CASI HC A07/MF A02 ANTARCTIC REGIONS, CLIMATOLOGY, ICE, SEA LEVEL

43

EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

N91-15615*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

MULTISOURCE DATA INTEGRATION IN REMOTE SENSING
JAMES C. TILTON, ed. Washington Jan. 1991 155 p Workshop
held in College Park, MD, 14-15 Jun. 1990; sponsored by NASA.
Goddard Space Flight Centre and NASA.

(NASA-CF 3099; REPT-90B00122; NAS 1.55:3099) Avail: CASI HC A08/MF A02

DATA ACQUISITION, DATA INTEGRATION, IMAGE ANALYSIS, IMAGE PROCESSING, MULTISENSOR APPLICATIONS, REMOTE SENSING, REMOTE SENSORS

N91-30588*# National Aeronautics and Space Administration, Washington, DC.

EARTH OBSERVATIONS AND GLOBAL CHANGE DECISION MAKING: A SPECIAL BIBLIOGRAPHY, 1991

Jun. 1991 99 p

(NASA-SP-7092; NAS 1 21:7092) Avail: CASI HC A05/MF A02. The first section of the bibliography contains 294 bibliographic citations and abstracts of relevant reports, articles, and documents announced in 'Scientific and Technical Aerospace Reports (STAR)' and 'International Aerospace Abstracts (IAA)'. These abstracts are categorized by the following major subject divisions: aeronautics, stronautics, chemistry and materials, engineering, geosciences, life sciences, mathematical and computer sciences, physics, social sciences, space sciences and general. Following the abstract section, seven indexes are provided for further assistance.

Author

N91-32528*# National Aeronautics and Space Administration Ames Research Center, Moffett Field, CA

INTERNATIONAL WORKSHOP ON STRATOSPHERIC AEROSOLS: MEASUREMENTS, PROPERTIES, AND EFFECTS

RUDOLF F. PUESCHEL, ed. Feb. 1991 76 p Workshop held at Moffett Field, CA, 27-30 Mar. 1990, sponsored in part by IAMAP Radiation Commission and the NASA Upper Atmosphere Research Program

(RTOP 573-01-21-04)

(NASA-CP-3114; A-90293; NAS 1.55:3114) Avail CASI HC A05/MF A01

AEROSOLS, CLIMATOLOGY, ICE CLOUDS, POLAR METEOROLOGY, SOOT, STRATOSPHERE, VOLCANOES

N92-10208*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

MISSION DESCRIPTION AND IN-FLIGHT OPERATIONS OF ERBE INSTRUMENTS ON ERBS AND NOAA 9 SPACECRAFT, NOVEMBER 1984 - JANUARY 1986

WILLIAM L. WEAVER (ST Systems Corp., Hampton, VA.), KATHRYN A. BUSH (ST Systems Corp., Hampton, VA.), CHRIS J. HARRIS (ST Systems Corp., Hampton, VA.), CLAYTON E HOWERTON, and CAROL J. TOLSON (STX Corp., Hampton, VA.) Washington Aug. 1991 282 p (RTOP 665-45-20)

(NASA-RP-1256; L-16895; NAS 1.61:1256) Avail: CASI HC A13/MF A03

Instruments of the Earth Radiation Budget Experiment (ERBE) are operating on three different Earth orbiting spacecrafts: the Earth Radiation Budget Satellite (ERBS), NOAA-9, and NOAA-10. An overview is presented of the ERBE mission, in-orbit environments, and instrument design and operational features. An overview of science data processing and validation procedures is also presented. In-flight operations are described for the ERBS instruments aboard the ERBS and NOAA-9. Calibration and other operational procedures are described, and operational and instrument housekeeping data are presented and discussed.

Author

N92-32127*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

MISSION DESCRIPTION AND IN-FLIGHT OPERATIONS OF ERBE INSTRUMENTS ON ERBS, NOAA 9, AND NOAA 10 SPACECRAFT Report, Feb. 1986 - Jan. 1987

WILLIAM L. WEAVER, KATHRYN A. BUSH (ST Systems Corp., Hampton, VA.), KEITH T. DEGNAN (ST Systems Corp., Hampton, VA.), CLAYTON E. HOWERTON (ST Systems Corp., Hampton, VA.), and CAROL J. TOLSON (ST Systems Corp., Hampton, VA., Aug. 1992 217 p

(RTOP 665-45-20)

(NASA-RP-1279; L-17069; NAS 1.61:1279) Avail: CASI HC A10/MF A03

Instruments of the Earth Radiation Budget Experiment (ERBE) are operating on three different Earth-orbiting spacecraft. The Earth Radiation Budget Satellite (ERBS) is operated by NASA, and NOAA 9 and NOAA 10 weather satellites are operated by the National Oceanic and Atmospheric Administration (NOAA). This paper is the second in a series that describes the ERBE mission, and data processing and validation procedures. This paper describes the spacecraft and instrument operations for the second full year of in-orbit operations, which extend from February 1986 through January 1987. Validation and archival of radiation measurements made by ERBE instruments during this second year of operation were completed in July 1991. This period includes the only time, November 1986 through January 1987, during which all ERBE instruments aboard the ERBE, NOAA 9, and NOAA 10 spacecraft were simultaneously operational. This paper covers normal and special operations of the spacecraft and instruments, operational anomalies, and the responses of the instruments to in-orbit and seasonal variations in the solar environment. Author

ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower.

N91-32549*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

SPACE ELECTROCHEMICAL RESEARCH AND TECHNOLOGY
Sep. 1991 244 p Third Conference held in Cleveland, OH, 9-10 Apr. 1991

(RTOP 506-41-21)

(NASA-CP-3125; E-6089; NAS 1.55:3125) Avail: CASI HC A11/MF A03

ELECTRIC BATTERIES, ELECTROCHEMISTRY, FUEL CELLS

N92-22740*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

THE 1991 NASA AEROSPACE BATTERY WORKSHOP
JEFFREY C. BREWER, comp. Washington Feb. 1992 855 p
Workshop held in Huntsville, AL, 29-31 Oct. 1991

(NASA-CP-3140; M-682; NAS 1.55:3140) Avail: CASI HC A99/MF A10

CONFERENCES, ELECTRIC BATTERIES, METAL AIR BATTERIES, NICKEL CADMIUM BATTERIES, NICKEL HYDROGEN BATTERIES, SILVER ZINC BATTERIES, SODIUM SULFUR BATTERIES, SPACECRAFT POWER SUPPLIES, ZINC-OXYGEN BATTERIES

N92-26895*# Lockheed Missiles and Space Co., Sunnyvale, CA.

MILSTAR'S FLEXIBLE SUBSTRATE SOLAR ARRAY: LESSONS LEARNED, ADDENDUM

JOHN GIBB 1990 17 p Presented at the 26th Aerospace Mechanisms Symposium

(NASA-CP-3147-ADD; NAS 1.55:3147-ADD) Avail: CASI HC A03/MF A01

SOLAR ARRAYS, SPACE STATION FREEDOM

45

ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

N91-16466*# National Aeronautics and Space Administration, Washington, DC.

THE ATMOSPHERIC EFFECTS OF STRATOSPHERIC AIRCRAFT: A TOPICAL REVIEW

HAROLD S. JOHNSTON (California Univ., Berkeley.), M. J. PRATHER, and R. T. WATSON Jan. 1991 32 p (NASA-RP-1250; NAS 1.61:1250) Avail: CASI HC A03/MF A01

In the late 1960s the aircraft industry became interested in developing a fleet of supersonic transports (SSTs). Between 1972 and 1975, the Climatic Impact Assessment Program (CIAP) studied the possible environmental impact of SSTs. For environmental and economic reasons, the fleet of SSTs was not developed. The Upper Atmosphere Research Program (UARP) has recently undertaken the responsibility of directing scientific research needed to assess the atmospheric impact of supersonic transports. The UARP and the High-Speed Research Program asked Harold Johnston to review the current understanding of aircraft emissions and their effect on the stratosphere. Johnston and his colleagues have recently re-examined the SST problem using current models for stratospheric ozone chemistry. A unique view is given here of the current scientific issues and the lessons learned since the beginning of CIAP, and it links the current research program with the assessment process that began two years ago. Author

N91-16467*# National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD.

THE ATMOSPHERIC EFFECTS OF STRATOSPHERIC AIRCRAFT: A CURRENT CONSENSUS

A. R. DOUGLASS (National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD.), M. A. CARROLL (National Oceanic and Atmospheric Administration, Boulder, CO.), W. B. DEMORE (Jet Propulsion Lab., California Inst. of Tech., Pasadena.), J. R. HOLTON (Washington Univ., Seattle.), I. S. A. ISAKSEN (Oslo Univ. (Norway).), H. S. JOHNSTON (California Univ., Berkeley.), and M. K. W. KO (Atmospheric and Environmental Research, Inc., Cambridge, MA.). Jan. 1991—46 p. (NASA-RP-1251; NAS 1.61:1251). Avail: CASI HC A03/MF A01

In the early 1970's, a fleet of supersonic aircraft flying in the lower stratosphere was proposed. A large fleet was never built for economic, political, and environmental reasons. Technological improvements may make it economically feasible to develop supersonic aircraft for current markets. Some key results of earlier scientific programs designed to assess the impact of aircraft emissions on stratospheric ozone are reviewed, and factors that must be considered to assess the environmental impact of aircraft exhaust are discussed. These include the amount of nitrogen oxides injected in the stratosphere, horizontal transport, and stratosphere/troposphere assessment models are presented. Areas in which improvements in scientific understanding and model representation must be made to reduce the uncertainty in model calculations are identified.

 $\begin{subarray}{ll} N92-19121*\# & National Aeronautics and Space Administration, Washington, DC. \end{subarray}$

THE ATMOSPHERIC EFFECTS OF STRATOSPHERIC AIRCRAFT: A FIRST PROGRAM REPORT

MICHAEL J. PRATHER, HOWARD L. WESOKY, RICHARD C. MIAKE-LYE, ANNE R. DOUGLASS, RICHARD P. TURCO, DONALD J. WUEBBLES, MALCOLM K. W. KO, and ARTHUR L. SCHMELTEKOPF (National Oceanic and Atmospheric Administration, Washington, DC.) Jan. 1992 227 p (NASA-RP-1272; NAS 1.61:1272) Avail: CASI HC A11/MF A03

Studies have indicated that, with sufficient technology development, high speed civil transport aircraft could be economically competitive with long haul subsonic aircraft. However, uncertainty about atmospheric pollution, along with community noise and sonic boom, continues to be a major concern; and this is addressed in the planned 6 yr HSRP begun in 1990. Building on NASA's research in atmospheric science and emissions reduction, the AESA studies particularly emphasizing stratospheric ozone effects. Because it will not be possible to directly measure the impact of an HSCT aircraft fleet on the atmosphere, the only means of assessment will be prediction. The process of establishing credibility for the predicted effects will likely be complex and involve continued model development and testing against climatological patterns. Lab simulation of heterogeneous chemistry and other effects will continue to be used to improve the current models. For individual titles, see N92-19122 through N92-19127.

46

GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

N91-18505*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SAM 2 MEASUREMENTS OF THE POLAR STRATOSPHERIC AEROSOL. VOLUME 9: OCTOBER 1982 - APRIL 1983

L. R. MCMASTER (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.) and K. A. POWELL (ST Systems Corp., Hampton, VA.) Washington Feb. 1991 77 p

(RTOP 665-10-40-04)

(NASA-RP-1244; L-16802-VOL-9; NAS 1.61:1244) Avail: CASI HC A05/MF A01

The Stratospheric Aerosol Measurement (SAM) Il sensor aboard Nimbus 7 is providing 1.0 micron extinction measurements of Antarctic and Arctic stratospheric aerosols with a vertical resolution of 1 km. Representative examples and weekly averages including corresponding temperature profiles provided by NOAA for the time and place of each SAM II measurement are presented. Contours of aerosol extinction as a function of altitude and longitude or time are plotted, and aerosol optical depths are calculated for each week. Typical values of aerosol extinction and stratospheric optical depth in the Arctic are unusually large due to the presence of material from the El Chichon volcano eruption in the Spring of 1982. For example, the optical depth peaked at 0.068, more than 50 times background values. Typical values of aerosol extinction and stratospheric optical depth in the Antarctic varied considerably during this period due to the transport and arrival of the material from the El Chichon eruption. For example, the stratospheric optical depth varied from 0.002 in October 1982, to 0.021 in January 1983. Polar stratospheric clouds were observed during the Arctic winter, as expected. A representative sample is provided of the ninth 6-month period of data to be used in atmospheric and climatic studies.

N91-21641*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

VOLCANISM-CLIMATE INTERACTIONS

LOUIS S. WALTER, ed. and SHANAKA DESILVA, ed. (Lunar and Planetary Inst., Houston, TX.) Washington Feb. 1991 145 p Workshop held in College Park, MD, 18-19 Jun. 1990 (RTOP 465-44-11)

(NASA-CP-10062; REPT-91B00055; NAS 1.55:10062) Avail: CASI HC A07/MF A02

AEROSOLS, ATMOSPHERIC CHEMISTRY, ATMOSPHERIC MODELS, CLIMATE, CLOUD PHYSICS, CONFERENCES, GEOLOGY, PARTICLE SIZE DISTRIBUTION, VOLCANOLOGY

N92-32655*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

STEADY INDUCTION EFFECTS IN GEOMAGNETISM, PART 1A: STEADY MOTIONAL INDUCTION OF GEOMAGNETIC

COERTF V. VOORHIES Sep. 1992 31 p. (NASA-T 2-3272-PT-1A; NAS 1.60:3272-PT-1A; REPT-92800100)

Avail: CASI HC A03/MF A01

CHAOS, CORE FLOW, GEOMAGNETISM, KINEMATICS, MAGNETIC FLUX, MAGNETIC EFFECTS, MAGNETIC INDUCTION, PALEOMAGNETISM

N92-33097*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SAGE 1 DATA USER'S GUIDE

LEONARD R. MCMASTER, WILLIAM P. CHU, and MICHAEL W. ROWLAND (ST Systems Corp., Hampton, VA.)

(RTOP 665-45-30-21)

(NASA-RP-1275; L-16879; NAS 1.61:1275) Avail: CASI HC A03/MF A01

A guide for using the data products from the Stratospheric Aerosol and Gas Experiment 1 (SAGE 1) for scientific investigations of stratospheric chemistry related to aerosol, ozone, nitrogen dioxide, dynamics, and climate change is presented. A detailed description of the aerosol profile tape, the ozone profile tape, and the nitrogen dioxide profile tape is included. These tapes are the SAGE 1 data products containing aerosol extinction data and ozone and nitrogen dioxide concentration data for use in the different scientific investigations. Brief descriptions of the instrument operation, data collection, processing, and validation, and some of the scientific analyses that were conducted are also included.

Author

47

METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

N91-10448*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. FIRE SCIENCE RESULTS 1988

DAVID S. MCDOUGAL, ed. and H. SCOTT WAGNER, ed. 394 p Workshop held in Vail, CO, Washington Jul. 1990 11-15 Jul. 1988; sponsored in cooperation with NASA, NSF, ONR, DOE, AFGL, and NOAA

(RTOP 672-22-10-70)

(NASA-CP-3083; L-16814; NAS 1.55:3083) Avail: CASI HC A17/MF A04

CIRRUS CLOUDS, CLIMATOLOGY, CONFERENCES, FIRE (CLIMATOLOGY). MARINE METEOROLOGY. PARAME-TERIZATION, SATELLITE OBSERVATION, STRATOCUMU-LUS CLOUDS

N91-13043*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

USER'S GUIDE: NIMBUS-7 EARTH RADIATION BUDGET NARROW-FIELD-OF-VIEW PRODUCTS. SCENE RADIANCE TAPE PRODUCTS, SORTING INTO ANGULAR BINS PRODUCTS, AND MAXIMUM LIKELIHOOD CLOUD **ESTIMATION PRODUCTS**

H. LEE KYLE (National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.), RICHARD R. HUCEK (Research and Data Systems, Inc., Greenbelt, MD.), BRIAN GROVEMAN (Research and Data Systems, Inc., Greenbelt, MD.). and RICHARD FREY (Research and Data Systems, Inc., Greenbelt, MD.) Nov. 1990 77 p (NAS5-29373)

(NASA-RP-1246; REPT-90B00143; NAS 1.61:1246) Avail: CASI HC A05/MF A01

The archived Earth radiation budget (ERB) products produced from the Nimbus-7 ERB narrow field-of-view scanner are described. The principal products are broadband outgoing longwave radiation (4.5 to 50 microns), reflected solar radiation (0.2 to 4.8 microns), and the net radiation. Daily and monthly averages are presented on a fixed global equal area (500 sq km), grid for the period May 1979 to May 1980. Two independent algorithms are used to estimate the outgoing fluxes from the observed radiances. The algorithms are described and the results compared. The products are divided into three subsets: the Scene Radiance Tapes (SRT) contain the calibrated radiances; the Sorting into Angular Bins (SAB) tape contains the SAB produced shortwave, longwave, and net radiation products; and the Maximum Likelihood Cloud Estimation (MLCE) tapes contain the MLCE products. The tape formats are described in detail.

N91-14683*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA

LIMB-DARKENING FUNCTIONS AS DERIVED FROM ALONG-TRACK OPERATION OF THE ERBE SCANNING **RADIOMETERS FOR AUGUST 1985**

G. LOUIS SMITH (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), NATIVIDAD D. MANALO (Lockheed Engineering and Sciences Co., Hampton, VA.), and LEE M. AVIS Washington Dec. 1990 41 p (RTOP 672-40-05-70)

(NASA-RP-1243; L-16779; NAS 1.61:1243) Avail: CASI HC

During August 1985, the scanning radiometers of the Earth Radiation Budget Experiment aboard the Earth Radiation Budget Satellite (ERBS) and the NOAA-9 satellite were operated in along-track scanning modes. These data were analyzed to produce limb darkening functions for Earth-emitted radiation, which relates the radiance in any given direction to the radiant exitence. Limb darkening functions are presented and shown as figures for day and night for each spacecraft. The scene types were computed using measurements within 10 deg of zenith. The models have values near zenith of 1.02 to 1.09, with values near 1.06 being typical. The typical value of the model is 1.06 for both day and night for ERBS, and for NOAA-9, the typical value at zenith is 1.06 for day and 1.05 for night. Mean models are formed for the ERBS and for the NOAA-9 results and are found to differ less than 1 percent, the ERBS results being the higher. The models vary about 1 percent with latitude near zenith.

N91-16500*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

NASA/MSFC FY90 GLOBAL SCALE ATMOSPHERIC PROCESSES RESEARCH PROGRAM REVIEW

FRED W. LESLIE, ed. Washington Oct. 1990 58 p. Conference held in Huntsville, AL, 20-21 Aug. 1990

(NASA-CP-3093; M-651; NAS 1.55.3093) Avail: CASI HC A04/MF A01

ATMOSPHERIC CIRCULATION, ATMOSPHERIC MODELS, ATMOSPHERIC PHYSICS, ATMOSPHERIC SOUNDING, EARTH ATMOSPHERE, GLOBAL ATMOSPHERIC RESEARCH PROGRAM, METEOROLOGY, NUMERICAL WEATHER FORECASTING, REMOTE SENSING, WEATHER

N91-24719*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA

ATLAS OF WIDE-FIELD-OF-VIEW OUTGOING LONGWAVE RADIATION DERIVED FROM NIMBUS 7 EARTH RADIATION BUDGET DATA SET, NOVEMBER 1985 TO OCTOBER 1987

T. DALE BESS and \tilde{G} LOUIS SMITH Washington Jun 1991 53 p

(RTOP 665-45-30-01)

(NASA-RP-1261, L-16934, NAS-1-61.1261) Avail CASI HC A04/MF A01

An atlas of monthly outgoing longwave radiation global contour maps and associated spherical harmonic coefficients is presented. The atlas contains 23 months of data from November 1985 to October 1987. The data were derived from the second Earth Radiation Budget (ERB) package, which was flown on the Nimbus 7 Sun-synchronous satellite in 1987. This data set is a companion set and extension to similar atlases that documented 10 years of outgoing longwave radiation results from Nimbus 6 and Nimbus 7 satellites. This atlas and the companion atlases give a data set covering a 12-year time period and will be very useful in studying different aspects of our changing climate. The data set also provides a 3-year overlap with the current Earth Radiation Budget Experiment (ERBE).

N91-24720*# National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD

ATLAS OF THE EARTH'S RADIATION BUDGET AS MEASURED BY NIMBUS-7: MAY 1979 TO MAY 1980

Hold Kill KYLE (National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD), RICHARD R HOLD Kill Space Flight Center, Greenbelt, MD), and BRENFA J VALLETTE (Research and Data Systems, Inc., Greenbelt MD), Washington, May 1991, 137 p. (NAS5 20073).

(NASA-RP 1003, NAS 1.61 1263, REPT-91800081) Avail CASI HC 4077/MF 402

This alias describes the seasonal changes in the Earth's radiation budget for the 13-month period, May 1979 to May 1980. It helps to illustrate the strong feedback mechanisms by which the Earth's climate interacts with the top of the almosphere insolation to modify the energy that various regions absorb from the Sun. Cloud type and cloud amount, which are linked to the surface temperature and the regional climate, are key elements in this interaction. Annual, seasonal, and monthly maps of the albedo, outgoing longwave and net radiation, noontime cloud cover, and mean diurnal surface temperatures are presented. Annual and seasonal net cloud forcing maps are also given. All of the quantities were derived from Nimbus 7 satellite measurements except for

the temperatures, which were used in the cloud detection algorithm and came originally from the Air Force 3-dimensional nephanalysis dataset. The seasonal changes are described. The interaction of clouds and the radiation budget is briefly discussed.

Author

N91-25556*# National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD

THE ROLE OF WATER VAPOR IN CLIMATE. A STRATEGIC RESEARCH PLAN FOR THE PROPOSED GEWEX WATER VAPOR PROJECT (GVAP)

D. OC STARR, ed. and S. HARVEY MELFI, ed. Washington Jul. 1991. 54 p. Workshop held in Easton, MD, 30 Oct. 1. Nov. 1990, sponsored by NASA and the GEWEX Science Steering Group.

(NASA-CP-3120; REPT-91800108, NAS 1 55 3120) Avail CASI HC A04/MF A01

ATMOSPHERIC MOISTURE, CLIMATE, CLIMATE CHANGE, ENERGY BUDGETS, PRECIPITATION (METEOROLOGY), WATER VAPOR

N91-26651*# National Aeronautics and Space Administration Goddard Space Flight Center, Greenbelt, MD

NIMBUS-7 TOMS ANTARCTIC OZONE ATLAS: AUGUST - DECEMBER 1990

ARLIN J KRUEGER (National Aeronautics and Space Administration Goddard Space Flight Center, Greenbeit, MD), LANNING M PENN (Research and Data Systems, Inc., Greenbelt MD), PATRICIA T GUIMARAES (ST Systems Corp., Vienna, VA), COURTNEY J SCOTT (ST Systems Corp., Vienna, VA), DAVID E. LARKO (ST Systems Corp., Vienna, VA), and SCOTT D DOIRON (ST Systems Corp., Vienna, VA), Washington Jun 1991 216 p (NASS-29373)

(NASA-RP-1264; REPT-91800103; NAS 1 61 1264) Avail CASE HC A10/MF A03

Because of the great environmental significance of ozone and to support continuing research at the Antarctic and other Southern. Hemisphere stations, the development of the 1990 ozone hole was monitored using data from the Nimbus-7 Total Ozone Mapping Spectrometer (TOMS) instrument, produced in near real-time. This Atlas provides a complete set of daily polar orthographic projections of the TOMS total ozone measurements over the Southern Hemisphere for the period 1 Aug through 31 Dec. 1990. The 1990 ozone hole developed in a manner similar to that of 1987 and 1989, reaching a comparable depth in early October. This was in sharp contrast to the much weaker held of 1988. The 1990 ozone hole remained at polar latitudes as it filled in Nev in contrast to other recent years when the hold drifted to mid latitudes before disappearing. Daily ozone values above selected Southern Hemisphere stations are presented, along with comparisons of the 1990 ozone distribution to that of other years. A new calibration scheme (Version 6) was used to process 1990 ozone values, as well as to reprocess those of previous years

N91-32599*# National Aeronautics and Space Administration John F. Kennedy Space Center, Godoa Beach, FL.

THE 1991 INTERNATIONAL AEROSPACE AND GROUND CONFERENCE ON LIGHTNING AND STATIC ELECTRICITY, VOLUME 1

Apr. 1991 626 p. Conference held in Cocoa Beach, Ft., tr. 19 Apr. 1991, sponsored in part by NASA, the National Interagency Coordination Group, and Fforida Inst. of Tech.

(NASA CP 3106 VOE-1, NAS 1.55.3106 VOE-1). Avail CASE HC A99 MF A06

N91-32660*# - 14-denat Aeronautics and Space Administration Marshall Space Flight Center Huntsville, At

NASA/MSFC FY91 GLOBAL SCALE ATMOSPHERIC PROCESSES RESEARCH PROGRAM REVIEW

47 METEOROLOGY AND CLIMATOLOGY

FRED W. LESLIE, ed. Washington Sep. 1991 94 p Conference held in Huntsville, AL, 28-31 May 1991 (NASA-CP-3126; M-669; NAS 1.55:3126) Avail: CASI HC

A05/MF A01

ATMOSPHERIC PHYSICS, DATA PROCESSING, EARTH ATMOSPHERE, EARTH OBSERVATIONS (FROM SPACE), METEOROLOGICAL PARAMETERS, METEOROLOGY, SATELLITE OBSERVATION, WEATHER FORECASTING

Nº1-32693*# National Aeronautics and Space Administration.
John F. Kennedy Space Center, Cocoa Beach, FL.
THE 1991 INTERNATIONAL AEROSPACE AND GROUND
CONFERENCE ON LIGHTNING AND STATIC ELECTRICITY,
VOLUME 2

Aug. 1991 459 p Conference held in Cocoa Beach, FL, 16-19 Apr. 1991; sponsored in part by NASA, the National Interagency Coordination Group, and Florida Inst. of Tech.

(NASA-CP-3106-VOL-2; NAS 1.55:3106-VOL-2) Avail: CASI HC A20/MF A04

ELECTROMAGNETIC COUPLING, ELECTROMAGNETIC PULSES, LIGHTNING, STATIC ELECTRICITY, WEATHER FORECASTING

N92-33482*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

INERTIAL OSCILLATION OF A VERTICAL ROTATING DRAFT WITH APPLICATION TO A SUPERCELL STORM

ROBERT C. COSTEN and LARRY V. STOCK (Hampton Univ., VA.) Sep. 1992 47 p. A video recording supplement L-0592-97 N92-24346 is available from CASI \$12 Original contains color illustrations

(RTOP 506-41-41-01)

(NASA-TP-3230; L-16987; NAS 1.60:3230) Avail: CASI HC

A03/MF A01; 1 functional color page

ANTICYCLONES, ATMOSPHERIC CIRCULATION, ATMOSPHERIC PHYSICS, CORIOLIS EFFECT, INERTIA, MATHEMATICAL MODELS, OSCILLATIONS, THUNDERSTORMS, WIND SHEAR

N92-34246* National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

INERTIAL OSCILLATION OF A VERTICAL ROTATING DRAFT WITH APPLICATION TO A SUPERCELL STORM: VIDEO SUPPLEMENT TO NASA TECHNICAL PAPER 3230 (Video Recording)

ROBERT C. COSTEN and LARRY V. STOCK (Hampton Univ., VA.) 15 Sep. 1992 This supplements NASA-TP-3230; N92-3348? Video Recording: 8 min., color, sound, VHS (RTOP 506-41-41-01)

(NASA-TP-3230-VIDEO-SUPPL; L-0592-97; NAS

1.60:3230-VIDEO-SUPPL) Avail: Issuing Activity (Center for AeroSpace Information) Video Recording \$12

ATMOSPHERIC CIRCULATION, ATMOSPHERIC MODELS, COMPUTERIZED SIMULATION, MATHEMATICAL MODELS, OSCILLATIONS, ROTATION, THUNDERSTORMS, VERTICAL AIR CURRENTS

48

OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources.

N92-25981*# National Aeronautics and Space Administration. Wallops Flight Facility, Wallops Island, VA.
NASA WALLOPS FLIGHT FACILITY AIR-SEAUNTERACTION

RESEARCH FACILITY

STEVEN R. LONG Jun. 1992 34 p.

(NASA-RP-1277; REPT-92B00059; NAS 1.61:1277) Avail: CASI HC A03/MF A01

This publication serves as an introduction to the Air-Sea Interaction Research Facility at NASA/GSFC/Wallops Flight Facility. The purpose of this publication is to provide background information on the research facility itself, including capabilities, available instrumentation, the types of experiments already done, ongoing experiments, and future plans.

Author

N92-27930*# National Aeronautics and Space Administration. Wallops Flight Facility, Wallops Island, VA.

A SELF-ZEROING CAPACITANCE PROBE FOR WATER WAVE MEASUREMENTS

STEVEN R. LONG Jun. 1992 45 p

(NASA-RP-1278; REPT-92B00058; NAS 1 61:1278) Avail: CASI HC A03/MF A01

The wave probe developed at the Air-Se i Interaction Research Facility was designed to measure the surface elevation fluctuations of water waves. Design criteria included being linear in response, self-zeroing to the mean water level, having multiple operating ranges so that the instrument's maximum output could be matched to the maximum surface elevation over varying conditions, and be as noise-free as possible. The purpose of this publication is to provide a detailed description of the design and construction of this probe.

51

LIFE SCIENCES (GENERAL)

N91-13842*# National Aeronautics and Space Administration, Washington, DC.

BIOLOGICAL LIFE SUPPORT TECHNOLOGIES: COMMERCIAL OPPORTUNITIES

MARK NELSON, ed. (Space Biospheres Ventures, Oracle, AZ.) and GERALD SOFFEN, ed. (Space Biospheres Ventures, Oracle, AZ.) Nov. 1990 117 p Workshop held in Tucson, AZ. 30 Oct. - 1 Nov. 1989

(NASA-CP-3094; NAS 1.55:3094) Avail: CASI HC A06/MF A02 BIOSPHERE, CLOSED ECOLOGICAL SYSTEMS, ENVIRONMENTAL ENGINEERING, REGENERATION (PHYSIOL-OGY), SPACE COMMERCIALIZATION

52

AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

N91-10574*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

WORKSHOP ON EXERCISE PRESCRIPTION FOR LONG-DURATION SPACE FLIGHT

BERNARD A. HARRIS, JR., ed. and DONALD F. STEWART, ed. Washington Oct. 1989 125 p. Workshop held in Houston, TX, 1986.

(RTOP 073-36-00-00-72)

(NASA-CP-3051; S-597; NAS 1.55:3051) Avail: CASI HC

BONE DEMINERALIZATION, CARDIOVASCULAR SYSTEM, DECONDITIONING, EXERCISE PHYSIOLOGY, LONG DURATION SPACE FLIGHT. MUSCULOSKELETAL SYSTEM, PHYSICAL EXERCISE, WEIGHTLESSNESS

N91-10594" National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 341)

(NASA-SP-7011(341); NAS 1.21:7011(341)) Avail: CASI HC A03 This bibliography lists 133 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during September 1990. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

N91-13063* National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 342)**

(NASA-SP-7011(342); NAS 1.21:7011(342)) Avail: CASI HC A05 This bibliography lists 208 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during October 1990. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

N91-14711' National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 343)

Dec. 1990 82 p

(NASA-SP-7011(343); NAS 1.21:7011(343)) Avail: CASI HC A05 This bibliography lists 125 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during January, 1989. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

Author

N91-14712* National Aeronautics and Space Administration. Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 344)** Jan. 1991 92 p

(NASA-SP-7011(344); NAS 1.21:7011(344)) Avail: CASI HC A05 This bibliography lists 125 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during January, 1989. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

Author

N91-16547* National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CUMULATIVE INDEX TO A CONTINUING BIBLIOGRAPHY (SUPPLEMENT

Jan. 1991 233 p

(NASA-SP-7011(345); NAS 1.21:7011(345)) Avail: CASI HC A11

This publication is a cumulative index to the abstracts contained in Supplements 333 through 344 of Aerospace Medicine and Biology: A Continuing Bibliography. Seven indexes are included -subject, personal author, corporate source, foreign technology, contract number, report number, and accession number.

N91-18573*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

MICROBIOLOGY ON SPACE STATION FREEDOM

DUANE L. PIERSON, ed. (National Aeronautics and Space Administration, Lyndon B. Johnson Space Center, Houston, TX.), MICHAEL R. MCGINNIS, ed. (Trias Univ., Galveston.), S. K. MISHRA, ed. (Krug Life Sciences, Inc., Houston, TX.), and CHRISTINE F. WOGAN, ed. (Krug International, Houston, TX.) Washington Feb. 1991 40 p. Conference held in Houston, TX, 6-8 Nov. 1989

(NASA-CP-3108; S-619; NAS 1.55:3108) Avail: CASI HC A03/MF A01

EXOBIOLOGY, HEALTH, MICROBIOLOGY, MICROOR-GANISMS, RESEARCH AND DEVELOPMENT, SPACE STATION FREEDOM, SPACE STATIONS, SPACECREWS

N91-19711'# National Aeronautics and Space Administration John F. Kennedy Space Center, Cocoa Beach, FL

RESPONSES OF WOMEN TO ORTHOSTATIC AND EXERCISE STRESSES Technical Report, 1976 - 1977

G. W. HOFFLER (National Aeronautics and Space Administration. John F. Kennedy Space Center, Lompoc, CA.), M. M. JACKSON (National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, TX.), R. L. JOHNSON (National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.), J. T. BAKER (Krug International, San Antonio, TX.), and D. TATRO (Bionetics Corp., Cocoa Beach, FL.) Washington Oct. 1990 77 p (NAS9-14880; NAS10-11624)

(NASA-TP-3043; NAS 1.60:3043) Avail: CASI HC A05/MF A01 ANTHROPOMETRY, DATA BASES, FEMALES, HISTORIES. PHYSICAL EXERCISE, PHYSIOLOGY, REDUCED GRAVITY. STATISTICAL CORRELATION

N91-23700° National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 346)** Feb. 1989 50 p

(NASA-SP-7011(346); NAS 1.21:7011(346)) Avail: CASI HC A03

This bibliography lists 134 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Jan. 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life. and flight crew behavior and performance.

N91-23701* National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 347)** Feb. 1989 64 p

(NASA-SP-7011(347); NAS 1.21:7011(347)) Avail: CASI HC A04 This bibliography lists 166 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Feb. 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life,

N91-23702* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 348)**

and flight crew behavior and performance.

Apr. 1991 60 p

(NASA-SP-7011(348); NAS 1.21:7011(348)) Avail: CASI HC A04 This bibliography lists 154 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Mar. 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled

environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

N91-24731° National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 349)

Author

May 1991 50 p

(NASA-SP-7011(349); NAS 1.21:7011(349)) Avail: CASI HC A03 This bibliography lists 149 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during April, 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

N91-25600* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 350)

(NASA-SP-7011(350); NAS 1.21:7011(350)) Avail: CASI HC A04 This bibliography lists 152 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during May 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

N91-27756* National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 351)**

Jul. 1991 92 p

(NASA-SP-7011(351); NAS 1.21:7011(351)) Avail: CASI HC A05 This bibliography lists 255 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Jun. 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life,

N91-28729* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 352)

and flight crew behavior and performance.

(NASA-SP-7011(352); NAS 1.21:7011(352)) Avail: CASI HC A04 This bibliography lists 147 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during July 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance. Author

N91-31760* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 353)**

(NASA-SP-7011(353); NAS 1.21:7011(353)) Avail: CASI HC A05 This bibliography lists 238 reports, articles, and other documents introduced into the NASA Scientific and Technical Information System in August 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, biotechnology, human factors engineering, and flight crew behavior and performance. Author

N92-12404* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 354)

Oct. 1991 86 p

(NASA-SP-7011(354); NAS 1.21:7011(354)) Avail: CASI HC A05 This bibliography lists 225 reports, articles and other documents

introduced into the NASA Scientific and Technical Information System during September, 1991. Subject coverage includes aerospace medicine and psychology, life support systems and

controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

Author

N92-12412* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 355)**

(NASA-SP-7011(355); NAS 1.21:7011(355)) Avail: CASI HC A04 This bibliography lists 147 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during October, 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

Author

National Aeronautics and Space Administration, Washington, DC

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING **BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 356)**

(NASA-SP-7011(356); NAS 1.21:7011(356)) Avail: CASI HC A04 This bibliography lists 192 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during November 1991. Subject coverage includes: aerospace medicine and psychology, life support systems and controlled environments, safety equipment, exobiology and extraterrestrial life, and flight crew behavior and performance.

Author

N92-16553*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

EVALUATION OF NONINVASIVE CARDIAC OUTPUT METHODS DURING EXERCISE

ALAN D. MOORE (Krug Life Sciences, Inc., Houston, TX.), LINDA H. BARROWS (Krug Life Sciences, Inc., Houston, TX.), MICHAEL RASHID, and STEVEN F. SICONOLFI Jan. 1992 10 p. (NASA-TP-3174; S-657; NAS 1.60:3174) Avail: CASI HC A02/MF A01

BIOMEDICAL DATA, CARBON DIOXIDE, CARDIAC OUTPUT, REBREATHING

N92-16554*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

FUEL UTILIZATION DURING EXERCISE AFTER 7 DAYS OF BED REST

LINDA H. BARROWS (Krug Life Sciences, Inc., Houston, TX.), BERNARD A. HARRIS (Krug Life Sciences, Inc., Houston, TX.), ALAN D. MOORE (Krug Life Sciences, Inc., Houston, TX.), and STEVEN F. SICONOLFI Washington Jan. 1992 11 p (NASA-TP-3175; S-658; NAS 1.60:3175) Avail: CASI HC A03/MF A01

BED REST, CALORIC REQUIREMENTS, CARBOHYDRATE METABOLISM, GRAVITATIONAL EFFECTS. EXERCISE, PHYSICAL FITNESS, PROTEINS

National Aeronautics and Space Administration. N92-17022*# Lyndon B. Johnson Space Center, Houston, TX.

TECHNIQUES FOR DETERMINATION OF IMPACT FORCES **DURING WALKING AND RUNNING IN A ZERO-G ENVIRONMENT**

MICHAEL GREENISEN (Krug Life Sciences, Inc., Houston, TX.), MARLEI WALTON (Alabama Univ., Tuscaloosa.), PHILLIP BISHOP, and WILLIAM SQUIRES (Texas Lutheran Coll., Seguin.) Washington Jan. 1992 18 p. (NASA-TP-3159; S-651; NAS 1.60:3159) Avail: CASI HC

BONE DEMINERALIZATION, GRAVITATIONAL PHYSIOLOGY. IMPACT LOADS, MUSCULOSKELETAL SYSTEM, REDUCED GRAVITY, WALKING, WEIGHTLESSNESS SIMULATION

N92-17645*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

ECCENTRIC AND CONCENTRIC MUSCLE PERFORMANCE FOLLOWING 7 DAYS OF SIMULATED WEIGHTLESSNESS

JUDITH C. HAYES (Krug Life Sciences, Inc., Houston, TX.), MARY L. ROPER (Krug Life Sciences, Inc., Houston, TX.), AUGUSTUS D. MAZZOCCA (Krug Life Sciences, Inc., Houston, TX.), JOHN J. MCBRINE (Krug Life Sciences, Inc., Houston, TX.), LINDA H. BARROWS (Krug Life Sciences, Inc., Houston, TX.), BERNARD A. HARRIS, and STEVEN F. SICONOLFI Washington Feb. 1992 13 p.

(NASA-TP-3182; S-665; NAS 1.60:3182) Avail: CASI HC A03/MF A01

BED REST, HUMAN PERFORMANCE, MUSCLES, MUSCULAR FUNCTION, MUSCULOSKELETAL SYSTEM, WEIGHTLESSNESS SIMULATION

N92-21714* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 357)

Jan. 1992 69 p

(NASA-SP-7011(357); NAS 1.21:7011(357)) Avail: CASI HC A04 This bibliography lists 186 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Dec. 1991. Subject coverage includes: aerospace medicine and physiology, life support systems and man/system technology, protective clothing, exobiology and extraterrestrial life, planetary biology, and flight crew behavior and performance.

Author

N92-21715° National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 359)

(NASA-SP-7011(359); NAS 1.21:7011(359)) Avail: CASI HC A04
This bibliography lists 164 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Jan. 1992. Subject coverage includes: aerospace medicine and physiology, life support systems and man/system technology, protective clothing, exobiology and extraterrestrial life, planetary biology, and flight crew behavior and performance.

Author

N92-22026* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CUMULATIVE INDEX TO A CONTINUING BIBLIOGRAPHY (SUPPLEMENT 358)

Jan. 1992 229 p

(NASA-SP-7011(358); NAS 1.21:7011(358)) Avail: CASI HC A11

This publication is a cumulative index to the abstracts contained in Supplements 346 through 357 of Aerospace Medicine and Biology: A Continuing Bibliography. It includes seven indexes: subject, personal author, corporate source, foreign technology, contract number, report number and accession number. Author

N92-22186*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

MULTIPLE LESION TRACK STRUCTURE MODEL

JOHN W. WILSON, FRANCIS A. CUCINOTTA, and JUDY L. SHINN Mar. 1992 14 p Sponsored in part by the Armed Forces Radiobiology Research Institute (RTOP 199-04-16-11)

(NASA-TP-3185; L-16988; NAS 1 60:3185) Avail: CASI HC A03/MF A01

CELL DIVISION, CELLS (BIOLOGY), HEAVY IONS, LESIONS, MATHEMATICAL MODELS, RADIATION DAMAGE, RADIATION EFFECTS, X RAYS

N92-27068* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 362)
May 1992 118 p

(NASA-SP-7011(362); NAS 1.21:7011(362)) Avail: CASI HC A06. This bibliography lists 357 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during May 1992. Subject coverage includes: aerospace medicine and physiology, life support systems and man/system technology, protective clothing, exobiology and extraterrestrial life, planetary biology, and flight crew behavior and performance.

Author

N92-27433* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 361)

(NASA-SP-7011(361); NAS 1.21:7011(361)) Avail: CASI HC A04 This bibliography lists 141 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Mar. 1992. Subject coverage includes: aerospace medicine and physiology, life support systems and man/system technology, protective clothing, exobiology and extraterrestrial life, planetary biology, and flight crew behavior and performance.

Author

N92-30987* National Aeronautics and Space Administration, Washington, DC.

AEROSPACE MEDICINE AND BIOLOGY: A CONTINUING BIBLIOGRAPHY WITH INDEXES (SUPPLEMENT 363)
Jun. 1992 69 p

(NASA-SP-7011(363); NAS 1.21:7011(363)) Avail: CASI HC A04/MF A01

This bibliography lists 164 reports, articles and other documents introduced into the NASA Scientific and Technical Information System during Jan. 1992. Subject coverage includes aerospace medicine and physiology, life support systems and man/system technology, protective clothing, exobiology and extraterrestrial life, planetary biology, and flight crew behavior and performance.

Author

N92-34154*# National Aeronautics and Space Administration Langley Research Center, Hampton, VA.

TRĂCK STRUCTURE MODEL OF CELL DAMAGE IN SPACE FLIGHT

ROBERT KATZ (Nebraska Univ., Lincoln.), FRANCIS A CUCINOTTA, JOHN W. WILSON, JUDY L. SHINN, and DUC M NGO (Old Dominion Univ., Norfolk, VA.) Oct. 1992 32 p (RTOP 199-04-16-11)

(NASA-TP-3235; L-17058; NAS 1.60:3235) Avail CASI HC A03/MF A01

BIOLOGICAL EFFECTS, CELLS (BIOLOGY), EXPOSURE. EXTRATERRESTRIAL RADIATION, LINEAR ENERGY TRANSFER (LET), RADIATION DAMAGE, RELATIVE BIOLOGICAL EFFECTIVENESS (RBE), SURVIVAL

53

BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

N92-21467*# National Aeronautics and Space Administration Ames Research Center, Moffett Field, CA.

VISUALLY GUIDED CONTROL OF MOVEMENT

WALTER W. JOHNSON, ed. and MARY K. KAISER, ed. Apr. 1991 236 p. Workshop held at Moffett Field, CA, 26 Jun. - 14

Jul. 1989 (RTOP 505-67-51) (NASA-CP-3118; A-90200; NAS 1.55:3118) Avail: CASI HC A11/MF A03

AIRCRAFT CONTROL, CONFERENCES, CONTROL THEORY, SPACE PERCEPTION, VISUAL CONTROL, VISUAL PERCEPTION

54

MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

N91-24744*# National Aeronautics and Space Administration.

Ames Research Center, Moffett Field, CA.

CONTROLLED ECOLOGICAL LIFE SUPPORT SYSTEMS: NATURAL AND ARTIFICIAL ECOSYSTEMS

ROBERT D. MACELROY, ed. (National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.), BRAD G. THOMPSON, ed. (Alberta Research Council, Edmonton (Canada).), THEODORE W. IBBITTS, ed. (Wisconsin Univ., Madison.), and TYLER VOLK, ed. (New York Univ., New York.) Dec. 1989 185 p The 27th COSPAR Meeting was held in Espoo, Finland, 18-29 Jul. 1988; sponsored by Subcommission F.4

(RTOP 199-61-12)

(NASA-CP-10040; A-89105; NAS 1.55:10040) Avail: CASI HC A09/MF A02

ALGAE, CLOSED ECOLOGICAL SYSTEMS, ECOSYSTEMS, REGENERATION (PHYSIOLOGY), WASTE TREATMENT

N92-11638*# National Aeronautics and Space Administration.
Ames Research Center, Moffett Field, CA.

HUMAN MACHINE INTERFACES FOR TELEOPERATORS AND VIRTUAL ENVIRONMENTS CONFERENCE

Mar. 1990 175 p Conference held in Santa Barbara, CA, 4-9 Mar. 1990

(NASA-CP-10071; NAS 1.55:10071; AD-A240716) Avail: CASI HC A08/MF A02

COMPUTERIZED SIMULATION, FLIGHT SIMULATION, MAN-COMPUTER INTERFACE, OPERATORS (PERSONNEL), SENSORY PERCEPTION, TELEOPERATORS

N92-16562*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

RELIABILITY OF A SHUTTLE REACTION TIMER

RUSSELL D. HAYS (Krug Life Sciences, Inc., Houston, TX.), AUGUSTUS D. MAZZOCCA (Krug Life Sciences, Inc., Houston, TX.), MICHAEL RASHID, and STEVEN F. SICONOLFI Washington Jan. 1992 9 p

(NASA-TP-3176; S-659; NAS 1.60:3176) Avail: CASI HC A02/MF A01

ASTRONAUT PERFORMANCE, AUDITORY STIMULI, BIOASTRONAUTICS, COMPONENT RELIABILITY, REACTION TIME, SPACE SHUTTLES, SWITCHES, TIMING DEVICES, VISUAL STIMULI

N92-19772*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

A METHOD OF EVALUATING EFFICIENCY DURING SPACE-SUITED WORK IN A NEUTRAL BUOYANCY ENVIRONMENT

MICHAEL C. GREENISEN (Krug International, Houston, TX.), PHILLIP WEST, FREDERICK K. NEWTON, JOHN H. GILBERT, and WILLIAM G. SQUIRES (Texas Lutheran Coll., Seguin.) Oct. 1991 11 p

(NASA-TP-3153; S-648; NAS 1.60:3153) Avail: CASI HC A03/MF A01

EXTRAVEHICULAR ACTIVITY, FATIGUE TESTS, NEUTRAL BUOYANCY SIMULATION, PHYSICAL EXERCISE, SPACE SUITS, WORK CAPACITY

N92-25961*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX. NUTRITIONAL REQUIREMENTS FOR SPACE STATION

FREEDOM CREWS

HELEN W. LANE (Krug Life Sciences, Inc., Houston, TX.), BARBARA L. RICE, and CHRISTINE F. WOGAN, ed. (Krug Life Sciences, Inc., Houston, TX.) Washington Jun. 1992 15 p. Panel held in Houston, TX, 4-5 Feb. 1991 (NASA-CP-3146; S-672; NAS 1.55:3146) Avail: CASI HC

A03/MF A01

ASTRONAUTS, BIOLOGICAL EFFECTS, NUTRITIONAL REQUIREMENTS, SPACE FLIGHT FEEDING, SPACE STATION FREEDOM

N92-26538*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

THE VALIDATION OF A HUMAN FORCE MODEL TO PREDICT DYNAMIC FORCES RESULTING FROM MULTI-JOINT MOTIONS

ABHILASH K. PANDYA (Lockheed Engineering and Sciences Co., Houston, Tx.), JAMES C. MAIDA (Lockheed Engineering and Sciences Co., Houston, Tx.), ANN M. ALDRIDGE (Texas Woman's Univ., Houston.), SCOTT M. HASSON (Texas Womens Univ. Research Inst., Denton.), and BARBARA J. WOOLFORD Jun. 1992 33 p (NAS9-17900)

(NASA-TP-3206; S-670; NAS 1.60:3206) Avail: CASI HC A03/MF A01

HUMAN PERFORMANCE, INVERSE KINEMATICS, MUSCULAR STRENGTH, SHOULDERS, TORQUE, WRIST

N92-26682*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

CORRELATION AND PREDICTION OF DYNAMIC HUMAN ISOLATED JOINT STRENGTH FROM LEAN BODY MASS ABHILASH K. PANDYA, SCOTT M. HASSON, ANN M. ALDRIDGE (Lockheed Engineering and Sciences Co., Houston, TX.), JAMES C. MAIDA, and BARBARA J. WOOLFORD Jun. 1992 64 p

C. MAIDA, and BARBARA J. WOOLFORD Juli. 1992 64 (NAS9-17900) (NASA-TP-3207: S-671: NAS 1.60:3207) Avail: CASI HC

(NASA-TP-3207; S-671; NAS 1.60:3207) Avail: CASI HC A04/MF A01

BIODYNAMICS, DYNAMIC MODELS, HUMAN BEINGS, JOINTS (ANATOMY), LEAST SQUARES METHOD, PREDICTION ANALYSIS TECHNIQUES, REGRESSION ANALYSIS, STATISTICAL CORRELATION, TORQUE

N92-28897*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

EXPERIMENTAL MEASUREMENT OF THE ORBITAL PATHS OF PARTICLES SEDIMENTING WITHIN A ROTATING VISCOUS FLUID AS INFLUENCED BY GRAVITY

DAVID A. WOLF and RAY P. SCHWARZ (Krug Life Sciences, Inc., Houston, TX.) Jun. 1992 19 p (RTOP 694-01-23-05)

(NASA-TP-3200; S-668; NAS 1.60:3200) Avail: CASI HC A03/MF A01

BIOREACTORS, CELLS (BIOLOGY), CULTURE TECHNIQUES, REDUCED GRAVITY, ROTATING FLUIDS, SEDIMENTS, TISSUES (BIOLOGY), VISCOUS FLUIDS

SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

N91-14725*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

EXOBIOLOGY IN EARTH ORBIT: THE RESULTS OF SCIENCE WORKSHOPS HELD AT NASA, AMES RESEARCH CENTER D. DEFREES, ed., D. BROWNLEE, ed., J. TARTER, ed., D. USHER, ed., W. IRVINE, ed., and H. KLEIN, ed. 1989 142 p. Original contains color illustrations (RTOP 199-52-12-01)

(NASA-SP-500; NAS 1.21:500) Avail: CASI HC A07/MF A02; also available SOD HC \$6.50 as 033-000-01057-5; 5 functional

color pages

The Workshops on Exobiology in Earth Orbit were held to explore concepts for orbital experiments of exobiological interest and make recommendations on which classes of experiments should be carried out. Various observational and experimental opportunities in Earth orbit are described including those associated with the Space Shuttle laboratories, spacecraft deployed from the Space Shuttle and expendable launch vehicles, the Space Station, and lunar bases. Specific science issues and technology needs are summarized. Finally, a list of recommended experiments in the areas of observational exobiology, cosmic dust collection, and in situ experiments is presented.

N91-15691*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

EXOBIOLOGY ON MARS

D. L. DEVINCENZI, ed., J. R. MARSHALL, ed., and D. ANDERSEN, ed. Dec. 1990 35 p Proceedings held at Moffett Field, CA. 27-28 Feb. 1989

(RTOP 199-59-12-05)

(NASA-CP-10055; A-90320; NAS 1.55:10055) Avail: CASI HC

EQUIPMENT SPECIFICATIONS, EXOBIOLOGY, EXPERIMENT DESIGN, MARS (PLANET), MISSION PLANNING, NASA SPACE PROGRAMS, SPACE EXPLORATION, U.S.S.R. **PROGRAM**

N92-13588'# National Aeronautics and Space Administration, Washington, DC

FOURTH SYMPOSIUM ON CHEMICAL EVOLUTION AND THE **ORIGIN AND EVOLUTION OF LIFE Abstracts Only**

ROBERT A WHARTON, JR., ed., DALE T. ANDERSEN, ed., SARA E. BZIK, ed. (National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA.), and JOHN D. RUMMEL, ed. 129 p. Symposium held at Moffett Field, CA, 24-27 Oct. 1991 Jul. 1990

(RTOP 199-52-00)

(NASA-CP-3129; NAS 1.55:3129) Avail: CASI HC A07/MF A02 **BIOLOGICAL** EVOLUTION. CHEMICAL EVOLUTION, CONFERENCES. COSMIC DUST. EXOBIOLOGY. **GEOCHEMISTRY**

59

MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX FOURTH ANNUAL WORKSHOP ON SPACE OPERATIONS

APPLICATIONS AND RESEARCH (SOAR 90)

ROBERT T. SAVELY, ed. Washington Jan. 1991 Workshop held in Albuquerque, NM, 26-28 Jun. 1990; sponsored by NASA, Washington, AF, and New Mexico Univ. (NASA-CP-3103-VOL-1; S-618-VOL-1; NAS 1.55:3103-VOL-1) Avail: CASI HC A21/MF A04

CONFERENCES, HUMAN FACTORS ENGINEERING, LIFE SCIENCES, OPERATIONS RESEARCH, ROBOTICS

N91-20702*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

FOURTH ANNUAL WORKSHOP ON SPACE OPERATIONS **APPLICATIONS AND RESEARCH (SOAR 90)**

ROBERT T. SAVELY, ed. Washington Jan. 1991 Workshop held in Albuquerque, NM, 26-28 Jun. 1990; sponsored by NASA, Washington, AF, and New Mexico Univ. (NASA-CP-3103-VOL-2; S-618-VOL-2; NAS 1.55:3103-VOL-2) Avail: CASI HC A14/MF A03

CONFERENCES, EXPERT SYSTEMS, HUMAN FACTORS ENGINEERING, MAN-COMPUTER INTERFACE, OXIDATION, SPACE SHUTTLE ORBITERS, SPACE STATIONS, SPACECRAFT CONSTRUCTION MATERIALS

N92-12425*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD. SPACE AND EARTH SCIENCE DATA COMPRESSION

WORKSHOP

JAMES C. TILTON, ed. Washington Nov. 1991 85 p. Workshop held in Snowbird, UT, 11 Apr. 1991; sponsored by NASA and IEEE

(RTOP 590-32-14-01)

(NASA-CP-3130; REPT-91B00149; NAS 1.55:3130) Avail: CASI HC A05/MF A01

DATA COMPRESSION, EARTH OBSERVATIONS (FROM SPACE), IMAGE PROCESSING, INFORMATION SYSTEMS. PROCESSING, SPACE OBSERVATIONS (FROM SIGNAL EARTH)

N92-22324°# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

FIFTH ANNUAL WORKSHOP ON SPACE OPERATIONS APPLICATIONS AND RESEARCH (SOAR 1991), VOLUME 2 KUMAR KRISHEN, ed. Feb. 1992 391 p. Workshop held in Houston, TX, 9-11 Jul 1991; sponsored in cooperation with NASA,

Washington, AF, and Houston Univ., Clear Lake, TX (NASA-CP-3127-VOL-2; S-650-VOL-2; NAS 1 55:3127-VOL-2)

Avail: CASI HC A17/MF A04

MEDICINE. AEROSPACE CONFERENCES. SYSTEMS, HUMAN FACTORS ENGINEERING, LIFE SCIENCES. ROBOTICS, SPACE DEBRIS, SPACE PLASMAS, SHUTTLES, SPACE STATIONS, SPACECRAFT CONTROL

COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, and algorithms, and specific applications, e.g., CAD/CAM.

N91-17559*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

NASA FORMAL METHODS WORKSHOP, 1990

RICKY W. BUTLER, comp. Nov. 1990 504 p Workshop held in Hampton, VA, 20-23 Aug. 1990; sponsored by NASA, Washington

(RTOP 505-66-21-01)

(NASA-CP-10052; NAS 1.55:10052) Avail: CASI HC A22/MF A04

AVIONICS, CONFERENCES, CONTROL SYSTEMS DESIGN, DIGITAL SYSTEMS, FAULT TOLERANCE, FLIGHT CONTROL. LOGIC DESIGN

N91-25624*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

GUIDANCE, NAVIGATION, AND CONTROL SUBSYSTEM **EQUIPMENT SELECTION ALGORITHM USING EXPERT** SYSTEM METHODS

CHERYL L. ALLEN Washington May 1991 12 p (RTOP 506-49-21-02)

(NASA-TP-3082; L-16896; NAS 1.60:3082) Avail: CASI HC A03/MF A01

ALGORITHMS, ARCHITECTURE (COMPUTERS), COMPUTER AIDED DESIGN, CONTROL SYSTEMS DESIGN, EXPERT SYSTEMS. **SPACECRAFT** DESIGN, **SPACECRAFT** INSTRUMENTS

N91-25629*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

A SCHEME FOR BANDPASS FILTERING MAGNETOMETER MEASUREMENTS TO RECONSTRUCT TETHERED SATELLITE SKIPROPE MOTION

M E POLITES Washington Jun 1991 25 p (NASA-TP-3123; M-663; NAS 1.60:3123) Avail: CASI HC A03/MF A01

FILTERS. COMPUTERIZED SIMULATION, PANDPASS DYNAMIC STABILITY, MAGNETIC MEASUREMENT, SATELLITE CONTROL, SPACECRAFT MOTION, VIBRATION DAMPING

N92-11685*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

CELLULAR REPAIR/MISREPAIR TRACK MODEL

JOHN W WILSON and FRANCIS A. CUCINOTTA Washington Nov 1991 11 p (RTOP 199-04-16-11)

(NASA-TP-3124, L-16949, NAS 1.60 3124) Avail: CASI HC A03/MF A01

BIOLOGICAL EFFECTS, CELLS (BIOLOGY), KINETICS, LETHALITY, RADIATION EFFECTS, RELATIVE BIOLOGICAL EFFECTIVENESS (RBE)

N92-16568'# National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, TX.

SECOND CLIPS CONFERENCE PROCEEDINGS, VOLUME 1 JOSEPH GIARRATANO, ed. (Houston Univ., Clear Lake, TX.) and CHRISTOPHER J CULBERT, ed Sep 1991 232 p Conference held in Houston, TX, 23-25 Sep. 1991

(NASA-CP-10085-VOL-1, S-662-VOL-1; NAS 1.55 10085-VOL-1) Avail CASI HC A11/MF A03

COMPUTER AIDED DESIGN, CONFERENCES, EXPERT SYSTEMS, KNOWLEDGE REPRESENTATION

N92-16590*# National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, TX SECOND CLIPS CONFERENCE PROCEEDINGS, VOLUME 2

JOSEPH GIARRATANO, ed. (Houston Univ., Clear Lake, TX.) and CHRISTOPHER J. CULBERT, ed. Sep. 1991 280 p Conference held in Houston, TX, 23-25 Sep. 1991 (NASA-CP-10085-VOL-2; S-662-VOL-2; NAS 1.55:10085-VOL-2)

Avail: CASI HC A13/MF A03

CONFERENCES, EXPERT SYSTEMS, KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE), SOFTWARE TOOLS

N92-23432*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.
TECHNIQUE TO ELIMINATE COMPUTATIONAL INSTABILITY

IN MULTIBODY SIMULATIONS EMPLOYING THE LAGRANGE MULTIPLIER

G. WATTS Apr. 1992 30 p (NASA-TP-3220; M-687; NAS 1.60:3220) Avail: CASI HC A03/MF A01

COMPUTER TECHNIQUES, COMPUTERIZED SIMULATION, DYNAMICAL SYSTEMS, FLEXIBLE BODIES. LAGRANGE MULTIPLIERS

N92-24397°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SOFTWARE SURFACE MODELING AND GRID GENERATION STEERING COMMITTEE

ROBERT E. SMITH, ed. Washington Apr. 1992 Workshop held in Hampton, VA, 28-30 Apr. 1992 sponsored by NASA, Washington

(RTOP 505-90-53-02)

(NASA-CP-3143; L-17093; NAS 1.55:3143) Avail: CASI HC A22/MF A04

COMPUTATIONAL FLUID DYNAMICS, COMPUTER AIDED DESIGN, CONFERENCES, GRID GENERATION (MATHEMATICS). MATHEMATICAL MODELS, SOFTWARE ENGINEERING. SURFACE PROPERTIES

62

COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

National Aeronautics and Space Administration. N92-22285*# Langley Research Center, Hampton, VA

FAULT TOLERANCE OF ARTIFICIAL NEURAL NETWORKS WITH APPLICATIONS IN CRITICAL SYSTEMS

PETER W. PROTZEL, DANIEL L. PALUMBO, and MICHAEL K. ARRAS (Institute for Computer Applications in Science and Engineering, Hampton, VA.) Apr. 1992 50 a (RTOP 307-50-10-12)

(NASA-TP-3187; L-16969; NAS 1.60 3187) Avail. CASI HC 403/MF A01

COMPLITERIZED SIMULATION, DISTRIBUTED PROCESSING. FAULT TOLERANCE, NEUHAL NETS, PERFORM : JE TESTS, REAL TIME OPERATION, RELIABILITY ENGINEERING

N92-27589*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

EXPERIMENTAL VALIDATION OF CLOCK SYNCHRONIZATION ALGORITHMS

DANIEL L. PALUMBO and R. LYNN GRAHAM (PRC Kentron, Inc., Hampton, VA) Jul. 1992 24 p. (FITOP 505-64-10-07)

(NASA-TP-3209, L-17015, NAS 1 69 3209). Avail CASI HC A03/MF A01

ALGORITHMS, CLOCKS, FAILURE MODES, SYNCHRONISM, TIME MEASUREMENT

CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems.

National Aeronautics and Space Administration. N91-20811*# Lyndon B. Johnson Space Center, Houston, TX. PROCEEDINGS OF THE SECOND JOINT TECHNOLOGY WORKSHOP ON NEURAL NETWORKS AND FUZZY LOGIC, **VOLUME 2**

ROBERT N. LEA, ed. and JAMES A. VILLARREAL, ed. 1991 278 p Workshop held in Houston, TX, 10-13 Apr. 1990; sponsored by NASA, Washington, NASA. Johnson Space Center, and Houston Univ

(NASA-CP-10061-VOL-2; S-624-VOL-2; NAS 1.55:10061-VOL-2) Avail: CASI HC A13/MF A03

AUTOMATIC CONTROL, CONFERENCES, CONTROLLERS, DECISION MAKING, FUZZY SETS, IMAGE PROCESSING, NEURAL NETS, PATTERN RECOGNITION, SET THEORY, SPEECH RECOGNITION

N91-21778*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

PROCEEDINGS OF THE SECOND JOINT TECHNOLOGY WORKSHOP ON NEURAL NETWORKS AND FUZZY LOGIC, **VOLUME 1**

ROBERT N. LEA, ed. and JAMES VILLARREAL, ed. Feb. 1991 240 p. Workshop held in Houston, TX, 10-13 Apr. 1990; sponsored by NASA, Washington, NASA. Johnson Space Center, and Houston

(NASA-CP-10061-VOL-1; S-624-VOL-1; NAS 1.55:10061-VOL-1) Avail: CASI HC A11/MF A03

CONFERENCES, DECISION MAKING, EXPERT SYSTEMS, FUZZY SETS, FUZZY SYSTEMS, LOGIC CIRCUITS, NEURAL **NETS, SIGNAL PROCESSING**

N91-22769°# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

THE 1991 GODDARD CONFERENCE ON SPACE

APPLICATIONS OF ARTIFICIAL INTELLIGENCE
JAMES L. RASH, ed. Washington May 1991 361 p Conference held in Greenbelt, MD, 13-15 May 1991

(NASA-CP-3110; REPT-91B00064; NAS 1.55:3110) Avail: CASI HC A16/MF A03

INTELLIGENCE, COMPUTER **ARTIFICIAL** VISION CONFERENCES. CONTROL THEORY, INFORMATION MANAGEMENT, KNOWLEDGE REPRESENTATION, NEURAL NETS, ROBOTICS, SYSTEMS ENGINEERING

N92-23356*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

THE 1992 GODDARD CONFERENCE ON SPACE APPLICATIONS OF ARTIFICIAL INTELLIGENCE

JAMES L. RASH, ed. Washington 1992 251 p Conference held in Greenbelt, MD, 5-6 May 1992 (RTOP 030-09-01-25)

(NASA-CP-3141; REPT-92B00045; NAS 1.55:3141) Avail: CASI HC A12/MF A03

AEROSPACE ENGINEERING, ARTIFICIAL INTELLIGENCE, FAULT TOLERANCE, NEURAL NETS

N92-27763*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AUTOMATION AND ROBOTICS FOR SPACE-BASED SYSTEMS, 1991

ROBERT L. WILLIAMS, II, ed. May 1992 254 p Workshop was held in Hampton, VA, 10 Dec. 1991 (RTOP 595-11-22)

(NASA-CP-10098; NAS 1.55:10098) Avail: CASI HC A12/MF A03

LARGE SPACE STRUCTURES, ORBITAL ASSEMBLY, REMOTE MANIPULATOR SYSTEM, ROBOT ARMS, ROBOT CONTROL, ROBOTICS, ROBOTS, TELEROBOTICS

National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SOFTWARE DESIGN FOR AUTOMATED ASSEMBLY OF TRUSS STRUCTURES

CATHERINE L. HERSTROM, CAROLYN GRANTHAM, CHERYL L. ALLEN, WILLIAM R. DOGGETT, and RALPH W. WILL 1992 47 p

(RTOP 506-43-41-02)

(NASA-TP-3198; L-16983; NAS 1.60:3198) Avail: CASI HC A03/MF A01

AUTOMATIC CONTROL. CONSTRUCTION, ASSEMBLY, SOFTWARE ENGINEERING, SPACE ERECTABLE STRUCTURES, TRUSSES

65

STATISTICS AND PROBABILITY

includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

N91-25741*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA

MODEL REDUCTION BY TRIMMING FOR A CLASS OF SEMI-MARKOV RELIABILITY MODELS AND THE **CORRESPONDING ERROR BOUND**

ALLAN L. WHITE and DANIEL L. PALUMBO May 1991 11 p. Presented at the Annual Reliability and Maintainability Symposium,

(RTOP 505-66-21)

(NASA-TP-3089; L-16862; NAS 1.60:3089) Avail: CASI HC A03/MF A01

COMPLEX SYSTEMS, ERROR ANALYSIS, MARKOV PROCESSES. MATHEMATICAL MODELS. RELIABILITY **ANALYSIS**

66

SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

N91-18753*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

STRUCTURAL FACTORING APPROACH FOR ANALYZING STOCHASTIC NETWORKS

KELLY J. HAYHURST (National Aeronautics and Space Administration, Langley Research Center, Hampton, VA.) and DOUGLAS R. SHIER (College of William and Mary, Williamsburg, VA.) Washington Mar. 1991 24 p. (RTOP 505-66-21-01)

(NASA-TP-3069; L-16794; NAS 1.60:3069) Avail: CASI HC

COMMUNICATION NETWORKS, CRITICAL PATH METHOD, DATA LINKS, STOCHASTIC PROCESSES

National Aeronautics and Space Administration. N92-33483°# Langley Research Center, Hampton, VA.

ADVANCED TECHNIQUES IN RELIABILITY MODEL REPRESENTATION AND SOLUTION

DANIEL L. PALUMBO and DAVID M. NICOL (College of William and Mary, Williamsburg, VA.) Oct. 1992 18 p.

(RTOP 505-64-10-07) (NASA-TP-3242; L-17048; NAS 1.60:3242) Avail: CASI HC A03/MF A01

COMPUTER SYSTEMS PERFORMANCE, COMPUTERIZED SIMULATION, DISTRIBUTED PROCESSING, FAILURE ANALYSIS, FAILURE MODES, FAULT TOLERANCE, FLIGHT CONTROL, MATHEMATICAL MODELS, PARALLEL PROCESSING (COMPUTERS), RELIABILITY ANALYSIS, SOFTWARE TOOLS

70

PHYSICS (GENERAL)

N91-25755*# Jet Propulsion Lab., California Inst. of Tech., Pasadena.

THE 22ND ANNUAL PRECISE TIME AND TIME INTERVAL (PTTI) APPLICATIONS AND PLANNING MEETING

RICHARD L. SYDNOR, ed. May 1990 618 p Meeting held in Vienna, VA, 4-6 Dec. 1990

(NASA-CP-3116; NAS 1.55:3116; REPT-91B00084; AD-A239372) Ayail: CASI HC A99/MF A06

ATOMIC CLOCKS, FREQUENCY STANDARDS, HYDROGEN MASERS, METEOROLOGY, SATELLITE INSTRUMENTS, TELECOMMUNICATION, TIME, TIME MEASUREMENT

N92-13756*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

BENCHMARK SOLUTIONS FOR THF GALACTIC HEAVY-ION TRANSPORT EQUATIONS WITH ENERGY AND SPATIAL COUPLING

BARRY D. GANAPOL (Arizona Univ., Tucson.), LAWRENCE W. TOWNSEND (Old Dominion Univ., Norfolk, VA.), STANLEY L. LAMKIN (Old Dominion Univ., Norfolk, VA.), and JOHN W. WILSON Washington Oct. 1991 58 p (RTOP 199-04-16-11)

(NASA-TP-3112; L-16909; NAS 1.60:3112) Avail: CASI HC A04/MF A01

GALACTIC COSMIC RAYS, HEAVY IONS, NEUTRONS, NUCLEAR INTERACTIONS, RADIATION DOSAGE, RADIATION SHIELDING, TRANSPORT THEORY

N92-33350*# National Aeronautics and Space Administration.
Goddard Space Flight Center, Greenbelt, MD.
PROCEEDINGS OF THE 23RD ANNUAL PRECISE TIME AND
TIME INTERVAL (PTTI) APPLICATIONS AND PLANNING

RICHARD L. SYDNOR, ed. (Jet Propulsion Lab., California Inst. of Tech., Pasadena.) et al. Washington. Jul. 1992. 440 p. Meeting held in Pasadena, CA, 3-5 Dec. 1991; sponsored by NASA. Goddard Space Flight Cetner, JPL, Naval Observatory, Space and Naval. Warfare. Systems. Command, NRL, Army. Electronics Technology and Devices Lab., and AFOSR (NAS5-31000).

(NASA-CP-3159; REPT-92B00083; NAS 1.55:3159) Avail: CASI HC A19/MF A04

CONFERENCES, FREQUENCY STANDARDS, NAVIGATION SATELLITES, OPTICAL TRACKING, SATELLITE INSTRUMENTS, TIME MEASUREMENT, TRACKING NETWORKS, TRAPPED PARTICLES

71

ACOUSTICS

Includes sound generation, transmission, and attenuation

N91-12315*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

WAKE GEOMETRY EFFECTS ON ROTOR BLADE-VORTEX INTERACTION NOISE DIRECTIVITY

R. M. MARTIN (National Aeronautics and Space Administration Langley Research Center, Hampton, VA.), MICHAEL A. MARCOLINI (National Aeronautics and Space Administration Langley Research Center, Hampton, VA.), W. R. SPLETTSTOESSER (Flugwissenschaftliche Forschungsanstalt, Munich (Germany, F.R.).), and K.-J. SCHULTZ (Deutsche Forschungsanstalt fuer Luft- und Raumfahrt, Brunswick, Germany, F.R.) Nov. 1990 23 p. Original contains color illustrations (RTOP 505-63-51-06)

(NASA-TP-3015; L-16723; NAS 1.60:3015) Avail: CASEHC A03/MF A01; 6 functional color pages

BLADE TIPS, BLADE-VORTEX INTERACTION, INTERACTIONAL AERODYNAMICS, WAKES, WIND TUNNEL TESTS

N91-15848*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

MONOGRAPH ON PROPAGATION OF SOUND WAVES IN CURVED DUCTS

WOJCIECH ROSTAFINSKI Jan. 1991 97 p

(RTOP 505-69-61)

(NASA-RP-1248; E-5480; NAS 1.61:1248) Avail: CASI HC A05/MF A02

After reviewing and evaluating the existing material on sound propagation in curved ducts without flow, it seems strange that, except for L. J Rayleigh in 1878, no book on acoustics has treated the case of wave motion in bends. This monograph reviews the available analytical and experimental material, nearly 30 papers published on this subject so far, and concisely summarizes what has been learned about the motion of sound in hard-wall and acoustically lined cylindrical bends.

N91-16679*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

WIND TURBINE ACOUSTICS

HARVEY H. HUBBARD and KEVIN P. SHEPHERD Dec. 1990 49 p Submitted for publication Prepared in cooperation with NASA, Lewis Research Center and American Society of Mechanical Engineers

(DE-AI01-76ET-20320; FitOP 776-33-41)

(NASA-TP-3057; E-5663; DOE/NASA/20320-77; NAS 1.60:3057) Avail: CASI HC A03/MF A01

ACOUSTICS, DYNAMIC STRUCTURAL ANALYSIS, HARMONICS, NOISE MEASUREMENT, PREDICTION ANALYSIS TECHNIQUES, SOUND WAVES, SPECTRA, WIND SHEAR, WIND TURBINES

N91-16682*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FOURTH INTERNATIONAL SYMPOSIUM ON LONG-RANGE SOUND PROPAGATION

WILLIAM L. WILLSHIRE, JR., comp. Washington Dec. 1990 274 p Symposium held in Hampton, VA, 16-17 May 1990; sponsored by NASA, Langley Research Center, Mississippi Univ., and Open Univ. of England

(RTOP 505-61-11-02)

(NASA-CP-3101; L-16875; NAS 1.55:3101) Avail: CASEHC A12/MF A03

ACOUSTIC MEASUREMENT, ACOUSTIC PROPAGATION, AIRCRAFT NOISE, CONFERENCES, NOISE INTENSITY, SOUND PROPAGATION

N91-19823*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

J-85 JET ENGINE NOISE MEASURED IN THE ONERA S1 WIND TUNNEL AND EXTRAPOLATED TO FAR FIELD

PAUL T. SODERMAN (National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA.), ALAIN JULIENNE (Office National d'Etudes et de Recherches Aerospatiales, Paris, France), and ADOLPH ATENCIO, JR. Washington Jan. 1991 181 p (RTOP 307-50-81)

(NASA-TP-3053; A-89265; NAS 1.60:3053) Avail: CASI HC A09/MF A02

ANOMALIES, ENGINE NOISE, FAR FIELDS, J-85 ENGINE, SOUND FIELDS, SUBSONIC FLOW, WIND TUNNEL TESTS

N91-19824*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

LARGE-SCALE AEROACOUSTIC RESEARCH FEASIBILITY AND CONCEPTUAL DESIGN OF TEST-SECTION INSERTS FOR THE AMES 80- BY 120-FOOT WIND TUNNEL PAUL T. SODERMAN and LARRY E. OLSEN Dec. 1990 50 p

(RTOP 307-50-62-11)

(NASA-TP-3020; A-88007; NAS 1.60:3020) Avail: CASI HC A03/MF A01

ACOUSTIC MEASUREMENT, ACOUSTIC PROPERTIES, AEROACOUSTICS, AERODYNAMIC CHARACTERISTICS, INSERTS, INSTALLING, LININGS, WALLS, WEDGES, WIND TUNNEL APPARATUS, WIND TUNNEL TESTS

N91-21828*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

ACOUSTIC AND AERODYNAMIC STUDY OF A PUSHER-PROPELLER AIRCRAFT MODEL

PAUL T. SODERMAN and W. CLIFTON HORNE Washington Sep. 1990 67 p (RTOP 505-61-11)

(NASA-TP-3040; A-89038; NAS 1.60:3040) Avail: CASI HC

AEROACOUSTICS, AIRCRAFT MODELS, AIRCRAFT WAKES. INTERACTIONAL AERODYNAMICS, PROPELLER BLADES, PROPELLER NOISE

N92-10598*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AEROACOUSTICS OF FLIGHT VEHICLES: THEORY AND PRACTICE. VOLUME 1: NOISE SOURCES

HARVEY H. HUBBARD, ed. Washington Aug. 1991 601 p Sponsored in cooperation with Wright Research and Development Center and Army Aviation Systems Command (F33615-84-C-3202; RTOP 535-03-11-03)

(NASA-RP-1258-VOL-1; L-16926-VOL-1; NAS 1.61:1258-VOL-1; WRDC-TR-90-3052-VOL-1; AD-A241141) Avail: CASI HC

Methodology recommended to evaluate aeroacoustic related problems is provided, and approaches to their solutions are suggested without extensive tables, nomographs, and derivations. Orientation is toward flight vehicles and emphasis is on underlying physical concepts. Theoretical, experimental, and applied aspects are covered, including the main formulations and comparisons of theory and experiment. The topics covered include: propeller and propfan noise, rotor noise, turbomachinery noise, jet noise classical theory and experiments, noise from turbulent shear flows, jet noise generated by large-scale coherent motion, airframe noise, propulsive lift noise, combustion and core noise, and sonic booms. For individual titles, see N92-10599 through N92-10608.

National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

ANNOYANCE CAUSED BY ADVANCED TURBOPROP AIRCRAFT FLYOVER NOISE: COMPARISON OF DIFFERENT PROPELLER CONFIGURATIONS

DAVID A. MCCURDY Washington Oct. 1991 69 p.

(RTOP 505-63-51-09)

(NASA-TP-3104; L-16850; NAS 1.60:3104) Avail: CASI HC A04/MF A01

AERODYNAMIC NOISE, AIRCRAFT NOISE, PROPELLER NOISE, PROPELLERS, PSYCHOACOUSTICS. TURBOFAN AIRCRAFT, TURBOPROP AIRCRAFT

National Aeronautics and Space Administration. N92-11765*# Langley Research Center, Hampton, VA.

A LOUDNESS CALCULATION PROCEDURE APPLIED TO SHAPED SONIC BOOMS

KEVIN P. SHEPHERD and BRENDA M. SULLIVAN (Lockheed Engineering and Sciences Co., Hampton, VA.) Washington Nov. 1991 13 p

(RTOP 537-03-21-03)

(NASA-TP-3134; L-16913; NAS 1.60:3134) Avail: CASI HC A03/MF A01

LOUDNESS, SONIC BOOMS, SUPERSONIC TRANSPORTS

N92-14779*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.
AEROACOUSTICS OF FLIGHT VEHICLES: THEORY AND

PRACTICE. VOLUME 2: NOISE CONTROL

HARVEY H. HUBBARD, ed. Washington Aug. 1991 443 p. Sponsored in cooperation with the Army Aviation Systems

(F33615-84-C-3202; RTOP 535-03-11-03)

(NASA-RP-1258-VOL-2; L-16926-VOL-2; NAS 1.61:1258-VOL-2; WRDC-TR-90-3052-VOL-2) Avail: CASI HC A19/MF A04

Flight vehicles and the underlying concepts of noise generation, noise propagation, noise prediction, and noise control are studied. This volume includes those chapters that relate to flight vehicle noise control and operations: human response to aircraft noise; atmospheric propagation; theoretical models for duct acoustic propagation and radiation; design and performance of duct acoustic treatment; jet noise suppression; interior noise; flyover noise measurement and prediction, and quiet aircraft design and operational characteristics. For individual titles, see N92-14780 through N92-14787.

National Aeronautics and Space Administration. N92-20479*# Langley Research Center, Hampton, VA.

ANNOYANCE CAUSED BY AIRCRAFT EN ROUTE NOISE DAVID A. MCCURDY Mar. 1992 40 p (RTOP 535-03-11-03)

(NASA-TP-3165; L-16975; NAS 1.60:3165) Avail: CASI HC

AIRCRAFT NOISE, ANECHOIC CHAMBERS, COMMERCIAL AIRCRAFT, JUDGMENTS, PROP-FAN TECHNOLOGY, TAKEOFF, TURBOFAN AIRCRAFT, TURBOPROP AIRCRAFT

N92-32948*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FOURTH AIRCRAFT INTERIOR NOISE WORKSHOP

DAVID G. STEPHENS, comp. Jul. 1992 335 p Workshop held in Friedrichshafen, Fed. Republic of Germany, 19-20 May 1992; sponsored by NASA, Society of Automotive Engineers, and the German Aerospace Research Establishment (RTOP 535-03-11-03)

(NASA-CP-10103; NAS 1.55:10103) Avail: CASI HC A15/MF

AEROACOUSTICS, AERODYNAMIC NOISE, AIRCRAFT NOISE, CONFERENCES, NOISE MEASUREMENT, NOISE PREDICTION, NOISE REDUCTION

NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

N91-13985°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

INCLUSIVE INELASTIC SCATTERING OF HEAVY IONS AND NUCLEAR CORRELATIONS

FRANCIS A. CUCINOTTA (Rockwell International Corp., Houston, TX.), LAWRENCE W. TOWNSEND (National Aeronautics and Space Administration. Langley Research Center, Hamoton, VA.), JOHN W. WILSON (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and GOVIND S. KHANDELWAL (Old Dominion Univ., Norfolk, VA.) Washington Nov. 1990 22 p

(RTOP 199-04-16-11)

(NASA-TP-3026; L-16793; NAS 1.60:3026) Avail: CASI HC A03/MF A01

ANGULAR DISTRIBUTION, HEAVY IONS, INELASTIC SCATTERING, ION SCATTERING, IONIC COLLISIONS, MOMENTUM TRANSFER, RELATIVISTIC PARTICLES

74

OPTICS

includes light phenomena; and optical devices.

N92-22045*# National Aeronautics and Space Administration.
Goddard Space Flight Center, Greenbelt, MD.

WORKSHOP ON SQUEEZED STATES AND UNCERTAINTY RELATICAS

DAESOO HAN, ed. (Maryland Univ., College Park.), Y. S. KIM, ed., and W. W. ZACHARY, ed. (Howard Univ., Washington, DC.) Washington Feb. 1992 385 p Workshop held in College Park, MD, 28-30 Mar. 1991

(NASA-CP-3135; REPT-92B00024; NAS 1.15:3135) Avail: CASI HC A17/MF A04

CONFERENCES, FIELD THEORY (PHYSICS), GROUP THEORY, HEISENBERG THEORY, LASERS, POINCARE PROBLEM, QUANTUM MECHANICS, QUANTUM OPTICS, QUANTUM THEORY, SQUEEZED STATES (QUANTUM THEORY)

75

PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

N91-17713*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

CURRENT COLLECTION FROM SPACE PLASMAS

NAGENDRA SINGH, ed. (Alabama Univ., Huntsville.), K. H. WRIGHT, JR., ed. (Alabama Univ., Huntsville.), and NOBIE H. STONE, ed. Washington Dec. 1990 368 p Workshop held in Huntsville, AL, 24-25 Apr. 1989; sponsored by NASA. Marshall Space Flight Center and Alabama Univ.

(NASA-CP-3089; M-644; NAS 1.55:3089) Avail: CASI HC A16/MF A03

CONFERENCES, EARTH ORBITS, PLASMA PHYSICS, PLASMA PROBES, SPACE CHARGE, SPACE PLASMAS, SPACECRAFT CHARGING

76

SOLID-STATE PHYSICS

Includes superconductivity.

N92-10677*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. POSITRON LIFETIME MEASUREMENTS IN CHIRAL NEMATIC

LIQUID CRYSTALS

JAG J. SINGH (Hampton Univ., VA.), ABE EFTEKHARI (Hampton Inst., VA.), and DEVENDRA S. PARMAR Oct. 1991 14 p (NASA-TP-3122; L-16948; NAS 1.60:3*22) Avail: CASI HC A03/MF A01

LIQUID CRYSTALS, OPTICAL ACTIVITY, POSITRON ANNIHILATION, POSITRONS, TIME MEASUREMENT

81

ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

N91-11591*# National Aeronautics and Space Administration. John F. Kennedy Space Center, Cocoa Beach, FL.

TWENTY-SECOND ANNUAL NASA SUPPLY AND EQUIPMENT MANAGEMENT CONFERENCE

1989 384 p Conference held in Cocoa Beach, FL, 5-7 Dec. 1989

(NASA-CP-10042; NAS 1.55:10042) Avail: CASI HC A17/MF A03

CONFERENCES, INVENTORIES, LOGISTICS, MANAGEMENT METHODS, PROJECT MANAGEMENT, REGULATIONS, SAFETY

N91-13347*# National Aeronautics and Space Administration, Washington, DC.

ISSUES IN NASA PROGRAM AND PROJECT MANAGEMENT

FHANCIS T. HOBAN, ed. Jul. 1990 57 p (NASA-SP-6101(03); NAS 1.21:6101(03)) Avail: CASI HC A04/MF A01

This volume is the third in an ongoing series on aerospace project management at NASA. Articles in this volume cover the attitude of the program manager, program control and performance measurement, risk management, cost plus award fee contracting, lessons learned from the development of the Far Infrared Absolute Spectrometer (FIRAS), small projects management, and age distribution of NASA scientists and engineers. A section on resources for NASA managers rounds out the publication.

Author

N91-24936* National Aeronautics and Space Administration, Washington, DC.

MANAGEMENT: A BIBLIOGRAPHY FOR NASA MANAGERS

Mar. 1991 195 p

(NASA-SP-7500(25); NAS 1.21:7500(25)) Avail: CASI HC A09

This bibliography lists 731 reports, articles and other documents introduced into the NASA Scientific and Technical Information System in 1990. Items are selected and grouped according to their usefulness to the manager as manager. Citations are grouped into ten subject categories: human factors and personnel issues; management theory and techniques; industrial management and manufacturing; robotics and expert systems; computers and information management; research and development; economics, costs and markets; logistics and operations management; reliability and quality control; and legality, legislation, and policy. Author

N91-28026*# National Aeronautics and Space Administration, Washington, DC.

ISSUES IN NASA PROGRAM AND PROJECT MANAGEMENT

FRANCIS T. HOBAN, ed. 1991 62 p (NASA-SP-6101(04); NAS 1.21:6101(04)) Avail: CASI HC A04/MF A01

This volume is the third in an ongoing series on aerospace project management at NASA. Articles in this volume cover " attitude of the program manager, program control and performance measurement, risk management, cost plus award fee contracting, lessons learned from the development of the Far Infrared Absolute Spectrometer (FIRAS), small projects management, and age distribution of NASA scientists and engineers. A section on resources for NASA managers rounds out the publication.

Author

N92-22665* National Aeronautics and Space Administration, Washington, DC.

CONTINUOUS IMPROVEMENT: A BIBLIOGRAPHY WITH INDEXES, 1989-1991

Feb. 1992 59 p

(NASA-SP-7097; NAS 1.21:7097) Avail: CASI HC A04

This bibliography contains 198 annotated references to reports and journal articles entered into the NASA Scientific and Technical Information Data base during 1989 to 1991.

Author

N92-27080* National Aeronautics and Space Administration, Washington, DC.

MANAGEMENT: A BIBLIOGRAPHY FOR NASA MANAGERS

(NASA-SP-7500(26); NAS 1.21:7500(26)) Avail: CASI HC A08

This bibliography lists 630 reports, articles and other documents introduced into the NASA Scientific and Technical Information System in 1991. Items are selected and grouped according to their usefulness to the manager as manager. Citations are grouped into ten subject categories: human factors and personnel issues; management theory and techniques; industrial management amanufacturing; robotics and expert systems; computers and information management; research and development; economics, costs and markets; logistics and operations management; reliability and quality control; and legality, legislation, and policy. Author

 $\mbox{\bf N92-27609}\mbox{\ }^*\mbox{\it \#}$ National Aeronautics and Space Administration, Washington, DC.

ISSUES IN NASA PROGRAM AND PROJECT MANAGEMENT FRANCIS T. HOBAN, ed. 1992 58 p

(NASA-SP-6101(05); NAS 1.21:6101(05)) Avail: CASI HC

A04/MF A01

This volume is the fifth in an ongoing series on aerospace project management at NASA. Articles in this volume cover: an overview of the project cycle; SE&I management for manned space

flight programs; shared experiences from NASA Programs and Projects - 1975; cost control for Mariner Venus/Mercury 1973; and the Space Shuttle - a balancing of design and politics. A section on resources for NASA managers rounds out the publication.

Author

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DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography.

N91-10804*# National Aeronautics and Space Administration, Washington, DC.

NASA THESAURUS SUPPLEMENT: A FOUR PART CUMULATIVE SUPPLEMENT TO THE 1988 EDITION OF THE NASA THESAURUS (SUPPLEMENT 4) Semiannual Report

Sep. 1990 26 p

(NASA-SP-7064-SUPPL-4; NAS 1.21:7064-SUPPL-4) Avail: CASI HC A03/MF A01

The four-part cumulative supplement to the 1988 edition of

the NASA Thesaurus includes the Hierarchical Listing (Part 1), Access Vocabulary (Part 2), Definitions (Part 3), and Changes (Part 4). The semiannual supplement gives complete hierarchies and accepted upper/lowercase forms for new terms.

Author

N91-13374*# National Aeronautics and Space Administration, Washington, DC.

NASA SCIENTIFIC AND TECHNICAL PUBLICATIONS: A CATALOG OF SPECIAL PUBLICATIONS, REFERENCE PUBLICATIONS, CONFERENCE PUBLICATIONS, AND TECHNICAL PAPERS, 1989

Feb. 1990 61 p

(NASA-SP-7063(04); NAS 1.21:7063(04)) Avail: NTIS HC free as PR-869; NASA Scientific and Technical Information Facility, BWI Airport, MD free

This catalog lists 190 citations of all NASA Special Publications, NASA Reference Publications, NASA Conference Publications, and NASA Technical Papers that were entered into the NASA scientific and technical information database during accession year 1989. The entries are grouped by subject category. Indexes of subject terms, personal authors, and NASA report numbers are provided. Author

N91-17833* National Aeronautics and Space Administration, Washington, DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 1: ABSTRACTS (SUPPLEMENT 38)

(NASA-SP-7039(38)-SECT-1; NAS 1.21:7039(38)-SECT-1) Avail: CASI HC A04

Abstracts are provided for 132 patents and patent applications entered into the NASA scientific and technical information system during the period July 1990 through December 1990. Each entry consists of a citation, an abstract, and in most cases, a key illustration selected from the patent or patent application. Author

N91-17834* National Aeronautics and Space Administration, Washington, DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 38)

Jan. 1991 537 p (NASA-SP-7039(38)-SECT-2; NAS 1.21:7039(38)-SECT-2) Avail: CASI HC A23

A subject index is provided for over 4900 patents and patent applications for the period May 1969 through December 1990. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers. Author

N91-19962*# National Aeronautics and Space Administration, Washington, DC.

NASA THESAURUS SUPPLEMENT: A FOUR PART CUMULATIVE SUPPLEMENT TO THE 1988 EDITION OF THE NASA THESAURUS (SUPPLEMENT 5) Semiannual Report

Mar. 1991 49 p (NASA-SP-7064-SUPPL-5; NAS 1.21:7064-SUPPL-5) Avail: CASI HC A03/MF A01

The four-part cumulative supplement to the 1988 edition of the NASA Thesaurus includes the Hierarchical Listing (Part 1), Access Vocabulary (Part 2), Definitions (Part 3), and Changes (Part 4). The semiannual supplement gives complete hierarchies and accepted upper/lowercase forms for new terms.

N91-24939*# National Aeronautics and Space Administration, Washington, DC.

NASA ŠCIENTIFIC AND TECHNICAL PUBLICATIONS: A CATALOG OF SPECIAL PUBLICATIONS. REFERENCE PUBLICATIONS, CONFERENCE PUBLICATIONS, AND TECHNICAL PAPERS, 1987-1990

Feb. 1991 174 p

(NASA-SP-7063(05); NAS 1.21:7063(05); AD-A235956) Avail NTIS HC free as PR-890; NASA Center for AeroSpace Information, BWI Airport, MD free

This catalog lists 783 citations of all NASA Special Publications, NASA Reference Publications, NASA Conference Publications, and NASA Technical Papers that were entered into NASA Scientific and Technical Information Database during the year's 1987 through 1990. The entries are grouped by subject category. Indexes of subject terms, personal authors, and NASA report numbers are provided.

N91-27009*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

PROCEEDINGS OF THE SECOND ANNUAL NASA SCIENCE INTERNET USER WORKING GROUP CONFERENCE

LENORE A. JACKSON, ed. (ST Systems Corp., Lanham, MD.) and J. PATRICK GARY, ed. Washington May 1991 429 p Conference held in San Mateo, CA, 11-14 Feb. 1991 (RTOP 656-63-00)

(NASA-CP-3117; REPT-91B00089; NAS 1.55:3117) Avail: CASI HC A19/MF A04

COMPUTER INFORMATION SECURITY, COMPUTER NETWORKS, CONFERENCES, MANAGEMENT METHODS, POLICIES, SOFTWARE ENGINEERING

N91-28042* National Aeronautics and Space Administration, Washington DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 1: ABSTRACTS (SUPPLEMENT 39)
Jul. 1991 63 p

(NASA-SP-7039(39)-SECT-1; NAS 1.21:7039(39)-SECT-1) Avail: CASI HC A04

Abstracts are provided for 154 patents and patent applications entered into the NASA scientific and technical information systems during the period Jan. 1991 through Jun. 1991. Each entry consists of a citation, an abstract, and in most cases, a key illustration selected from the patent or patent application.

Author

N91-29088* National Aeronautics and Space Administration, Washington, DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 39)
Jul. 1991 553 p

(NASA-SP-7039(39)-SECT-2; NAS 1.21:7039(39)-SECT-2) Avail: CASI HC A24

A subject index is provided for over 5000 patents and patent applications for the period May 1969 through June 1991. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.

N92-22508* National Aeronautics and Space Administration, Washington, DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 1: ABSTRACTS (SUPPLEMENT 40)
Jan. 1992 81 p

(NASA-SP-7039(40)-SECT-1; NAS 1.21:7039(40)-SECT-1) Avail: CASI HC A05

Abstracts are provided for 181 patents and patent applications entered into the NASA scientific and technical information system during the period July 1991 through December 1991. Each entry consists of a citation, an abstract, and in most cases, a key illustration selected from the patent or patent application. Author

N92-27081* National Aeronautics and Space Administration, Washington, DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 40)
Jan. 1992 564 p

(NASA-SP-7039(40)-SECT-2; NAS 1.21:7039(40)-SECT-2) Avail: CASI HC A24

A subject index is provided for over 5100 patents and patent applications for the period May 1969 through December 1991. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers. Author

N92-31455* National Aeronautics and Space Administration, Washington, DC.

NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 41)
Jul. 1992 578 p

(NASA-SP-7039(41)-SECT-2; NAS 1.21:7039(41)-SECT-2) Avail: CASI HC A25

A subject index is provided for over 5200 patents and patent applications for the period May 1969 through June 1992. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.

Author

88

SPACE SCIENCES (GENERAL)

N91-12401*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

MEASUREMENT AND CHARACTERIZATION OF THE ACCELERATION ENVIRONMENT ON BOARD THE SPACE STATION

CHARLES R. BAUGHER, ed. Washington Aug 1990 669 p Workshop held in Guntersville, AL, 11-14 Aug. 1986; sponsored by Teledyne Brown Engineering (NAS8-36122)

(NASA-CP-3088; M-639; NAS 1.55:3088) Avail: CASI HC A99/MF A06

ACCELERATION (PHYSICS), ACCELEROMETERS, CONFERENCES, REDUCED GRAVITY, SPACE COMMERCIALIZATION, SPACE PROCESSING, SPACE STATIONS, SPACECRAFT ENVIRONMENTS, SPACELAB, SPACELAB PAYLOADS

N91-14897*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

INTERSTELLAR DUST: CONTRIBUTED PAPERS

ALEXANDER G. G. M. TIELENS, ed. and LOUIS J. ALLAMANDOLA, ed. Dec. 1989 512 p Symposium held in Santa Clara, CA, 26-30 Jul. 1988; sponsored by NASA. Ames Research Center, NSF, and the International Astronomical Union (NASA-CP-3036; A-89050; NAS 1.55:3036) Avail: CASI HC A22/MF A04

ASTRONOMICAL MODELS, CONFERENCES, COSMIC DUST, INFRARED ASTRONOMY, INFRARED RADIATION, INTERSTELLAR MATTER, MOLECULAR CLOUDS, STAR FORMATION

N91-15930*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

SPACE STATION FREEDOM TOXIC AND REACTIVE MATERIALS HANDLING

CHARLES R. BAUGHER, ed. Washington Jul. 1990 703 p Workshop held in Huntsville, AL, 29 Nov. - 1 Dec. 1988; sponsored by Teledyne Brown Engineering (NAS8-36122)

(NASA-CP-3085; M-638; NAS 1.55:3085) Avail: CASI HC A99/MF A06

CONFERENCES, HAZARDS, MATERIALS HANDLING, MICROGRAVITY APPLICATIONS, SPACE PROCESSING, SPACE STATION FREEDOM, SPACE STATION PAYLOADS, TOXICITY

N92-11930*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

THE MICROGRAVITY ENVIRONMENT OF THE SPACE SHUTTLE COLUMBIA MIDDECK DURING STS-32

BONNIE J. DUNBAR, DONALD A. THOMAS, and JEFF N. SCHOESS (Honeywell, Inc., Bloomington, MN.) Washington Nov.

1991 59 p (NASA-TP-3140; S-640; NAS 1.60:3140) Avail: CASI HC A04/MF A01

ACCELERATION (PHYSICS), ACCELEROMETERS, COLUMBIA (ORBITER), REDUCED GRAVITY, SPACE SHUTTLE PAYLOADS, SPACEBORNE EXPERIMENTS

N92-11931*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

THE MICROGRAVITY ENVIRONMENT OF THE SPACE SHUTTLE COLUMBIA PAYLOAD BAY DURING STS-32

BO*'NIE J. DUNBAR, ROBERT L. GIESECKE, and DONALD A. THUMAS Washington Nov. 1991 51 p
(NASA-TP-3141; S-641; NAS 1.60:3141) Avail: CASI HC A04/MF A01

ACCELERATION (PHYSICS), ACCELEROMETERS, BAYS (STRUCTURAL UNITS), COLUMBIA (ORBITER), GRAVITATIONAL EFFECTS, REDUCED GRAVITY, SPACE SHUTTLE MISSION 61-C, SPACE SHUTTLE PAYLOADS, SPACEBORNE EXPERIMENTS

N92-33478*# National Aeronautics and Space Administration.
Lyndon B. Johnson Space Center, Houston, TX.

OPRITAL DEPOIS. TECHNICAL ISSUES AND SUTURE.

ORBITAL DEBRIS: TECHNICAL ISSUES AND FUTURE DIRECTIONS

ANDREW POTTER, ed. Sep. 1992 316 p Proceedings held in Baltimore, MD, 16-19 Apr. 1990; sponsored by AIAA and DOD (NASA-CP-10077; S-637; NAS 1.55:10077) Avail: CASI HC A14/MF A03

COLLISIONS, CONFERENCES, EARTH ORBITAL ENVIRONMENTS, HYPERVELOCITY IMPACT, IMPACT DAMAGE, SPACE DEBRIS, SPACECRAFT SHIELDING

89

ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

N91-32006*# National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL.

DEVELOPMENT OF THE BURST AND TRANSIENT SOURCE EXPERIMENT (BATSE)

J. M. HORACK Sep. 1991 322 p (NASA-RP-1268; M-668; NAS 1.61-1268) Avail: CASI HC A14/MF A03

The Burst and Transient Source Experiment (BATSE), one of four instruments on the Gamma Ray Observatory, consists of eight identical detector modules mounted on the corners of the spacecraft. Developed at MSFC, BATSE is the most sensitive gamma ray burst detector flown to date. Details of the assembly and test phase of the flight hardware development are presented. Results and descriptions of calibrations performed at MSFC, TRW, and KSC are documented extensively. With the presentation of each calibration results, the reader is provided with the means to access raw calibration data for further review or analysis. Author

90

ASTROPHYSICS

Includes cosmology, celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust.

N91-14100°# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

THE INTERSTELLAR MEDIUM IN EXTERNAL GALAXIES: SUMMARIES OF CONTRIBUTED PAPERS

DAVID J. HOLLENBACH, ed. (National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.) and HARLEY A. THRONSON, JR., ed. (Wyoming Univ., Laramie.) Washington Jul. 1990 431 p Second conference held in the Grand Teton National Park, WY, 3-7 Jul. 1989; sponsored by NASA, NSF, and Wyoming Univ.

(RTOP 188-44-53)

(NASA-CP-3084; A-90075; NAS 1.55:3084) Avail: CASI HC A19/MF A04

CARBON MONOXIDE, CONFERENCES, COSMIC DUST, GALAXIES, INTERSTELLAR MATTER, RADIO ASTRONOMY, RADIO EMISSION, STAR FORMATION

N91-16858*# National Aeronautics and Space Administration.
Marshall Space Flight Center, Huntsville, AL.

PAIRED AND INTERACTING GALAXIES: INTERNATIONAL ASTRONOMICAL UNION COLLOQUIUM NO. 124

JACK W. SULENTIC, ed. (Alabama Univ., Tuscaloosa.), WILLIAM C. KEEL, ed. (Alabama Univ., Tuscaloosa.), and C. M. TELESCO, ed. Nov. 1990 738 p Colloquium held in Tuscaloosa, AL, 4-7 Dec. 1989; sponsored by NASA, the International Astronomical Union, and Alabama Univ., Tuscaloosa (NASA CR. 2008), MASC, NASC, 155-2008). Avail: CASC HC.

(NASA-CP-3098; M-652; NAS 1.55:3098) Avail: CASI HC A99/MF A06

ACTIVE GALACTIC NUCLEI, ASTRONOMY, COLLISIONS, CONFERENCES, GALACTIC CLUSTERS, GALACTIC STRUCTURE, INTERACTING GALAXIES, RADIO ASTRONOMY, STAR FORMATION, STARBURST GALAXIES

N92-21874*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

THE COMPTON OBSERVATORY SCIENCE WORKSHOP

CHRIS R. SHRADER, ed. (Computer Sciences Corp., Beltsville, MD.), NEIL GEHRELS, ed., and BRIAN DENNIS, ed. Washington Feb. 1992 552 p Workshop held in Annapolis, MD, 23-25 Sep. 1991

(NASA-CP-3137; REPT-92B00035; NAS 1.55:3137) Avait: CASI HC A24/MF A04

ASTRONOMICAL SPECTROSCOPY, ASTROPHYSICS, CONFERENCES, GAMMA RAY ASTRONOMY, GAMMA RAY BURSTS, GAMMA RAY OBSERVATORY, GAMMA RAY TELESCOPES

91

LUNAR AND PLANETARY EXPLORATION

includes planetology; and manned and unmanned flights.

N91-24965* National Aeronautics and Space Administration, Washington, DC.

INTERNATIONAL EXPLORATION OF MARS. A SPECIAL BIBLIOGRAPHY

Jun. 1991 66 p

(NASA-SP-7091; NAS 1.21:7091) Avail: CASI HC A04

This bibliography lists 173 reports, articles, and other documents introduced into the NASA Scientific and Technical Information

Database on the exploration of Mars. Historical references are cited for background. The bibliography was created for the 1991 session of the International Space University.

Author

N91-27057*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

SAND AND DUST ON MARS

RONALD GREELEY (Arizona State Univ., Tempe.) and ROBERT M. HABERLE May 1991 65 p Workshop held in Tempe, AZ, 4-5 Feb. 1991

(NCC2-346; RTOP 151-01-60-03)

(NASA-CP-10074; A-91130; NAS 1.55:10074) Avail: CASI HC A04/MF A01

CHEMICAL PROPERTIES, DUST, DUST STORMS, ELECTROSTATICS, MARS SURFACE, MINERALOGY, SANDS, WIND TUNNEL TESTS

N92-28345*# National Aeronautics and Space Administration, Washington, DC.

PLANETARY GEOSCIENCES, 1989-1990

MARIA T. ZUBER, ed. (National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.), ODETTE B. JAMES, ed. (Geological Survey, Washington, DC.), JONATHAN I. LUNINE, ed. (Arizona Univ., Tucson.), GLENN J. MACPHERSON, ed. (Smithsonian Institution, Washington, DC.), and ROGER J. PHILLIPS, ed. (Southern Methodist Univ., Dallas, TX.) 1992 81 p LIMITED REPRODUCIBILITY: More than 20% of this document may be affected by color photographs Original contains color illustrations

(NASA-SP-508; NAS 1.21:508; LC-91-33408; ISBN-0-16-036173-7)

NASA's Planetary Geosciences Programs (the Planetary Geology and Geophysics and the Planetary Material and Geochemistry Programs) provide support and an organizational framework for scientific research on solid bodies of the solar system. These research and analysis programs support scientific research aimed at increasing our understanding of the physical, chemical, and dynamic nature of the solid bodies of the solar system; the Moon, the terrestrial planets, the satellites of the outer planets, the rings, the asteroids, and the comets. This research is conducted using a variety of methods: laboratory experiments, theoretical approaches, data analysis, and Earth analog techniques. Through research supported by these programs, we are expanding our understanding of the origin and evolution of the solar system. This document is intended to provide an overview of the more significant scientific findings and discoveries made this year by scientists supported by the Planetary Geosciences Program. To a large degree, these results and discoveries are the measure of success of the programs. Author

N92-30302*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, OH.

ELECTRICAL AND CHEMICAL INTERACTIONS AT MARS WORKSHOP, PART 1 Final Report

1992 31 p Workshop held in Cleveland, OH, 19-20 Nov. 1991 (RTOP 506-41-41)

(NASA-CP-10093; E-7016-1; NAS 1.55:10093) Avail: CASI HC

AEROSPACE ENVIRONMENTS, CHEMICAL COMPOSITION, CONFERENCES, ELECTRICAL PROPERTIES, ENVIRONMENT MODELS, INTERACTIONS, MARS SURFACE, SPACE EXPLORATION

92

SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

N91-12456*# National Aeronautics and Space Administration. Goddard Space Flight Center, Greenbelt, MD.

CLIMATE IMPACT OF SOLAR VARIABILITY

KENNETH H. SCHATTEN, ed. and ALBERT ARKING, ed. Washington Aug. 1990 367 p Conference held in Greenbelt, MD, 24-27 Apr. 1990

(NASA-CP-3086; REPT-90B00129; NAS 1.55:3086) Avail: CASt HC A16/MF A03

CLIMATE, CLIMATE CHANGE, CLIMATOLOGY, CONFERENCES, ENVIRONMENT EFFECTS, GREENHOUSE EFFECT, LUMINOSITY, MAN ENVIRONMENT INTERACTIONS, SOLAR ACTIVITY EFFECTS, SOLAR RADIATION, SUN

N91-31061*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

ANALYSES OF RISKS ASSOCIATED WITH RADIATION EXPOSURE FROM PAST MAJOR SOLAR PARTICLE EVENTS MARK D. WEYLAND (Rockwell International Corp., Houston, TX.), WILLIAM ATWELL (Rockwell International Corp., Houston, TX.), FRANCIS A. CUCINOTTA (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), JOHN W. WILSON (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and ALVA C. HARDY Aug. 1991 37 p (NASA-TP-3137; S-639; NAS 1.60:3137) Avail: CASI HC

(NASA-TP-3137; S-639; NAS 1.60:3137) Avail: CASI HC A03/MF A01

AEROSPACE ENVIRONMENTS, COMPUTERIZED SIMULATION, HEMATOPOIETIC SYSTEM, RADIATION DOSAGE, RADIATION HAZARDS, RADIATION SHIELDING, SOLAR CORPUSCULAR RADIATION

93

SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation helts

N91-16981*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

CELLULAR TRACK MODEL OF BIOLOGICAL DAMAGE TO MAMMALIAN CELL CULTURES FROM GALACTIC COSMIC RAYS

FRANCIS A. CUCINOTTA (Rockwell International Corp., Houston, TX.), ROBERT KATZ (Nebraska Univ., Lincoln.), JOHN W. WILSON (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), LAWRENCE W. TOWNSEND (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), JOHN E. NEALY (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and JUDY L. SHINN Washington Feb. 1991 13 p (RTOP 199-04-16-11)

(NASA-TP-3055; L-16831; NAS 1.60:3055) Avail: CASI HC A03/MF A01

BIOLOGICAL MODELS (MATHEMATICS), CELLS (BIOLOGY), DAMAGE ASSESSMENT, GALACTIC COSMIC RAYS, HEAVY IONS, RADIATION DAMAGE, RADIATION PROTECTION, RELATIVE BIOLOGICAL EFFECTIVENESS (RBE)

N91-17999*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA. RADIATION PROTECTION FOR HUMAN MISSIONS TO THE MOON AND MARS

LISA C. SIMONSEN and JOHN E. NEALY Washington Feb. 1991 27 p

(RTOP 326-83-10-50)

(NASA-TP-3079; L-16892; NAS 1.60:3079) Avail: CASI HC

GALACTIC COSMIC RAYS, LUNAR SURFACE, MARS SURFACE, NUCLEONS, RADIATION PROTECTION, RADIATION SHIELDING, SPACE STATIONS

N91-23017°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

IMPROVEMENTS IN COMPUTATIONAL ACCURACY OF BRYNTRN (A BARYON TRANSPORT CODE)

JUDY L. SHINN (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), JOHN W. WILSON (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), MARK WEYLAND (National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.), and FRANCIS A. CUCINOTTA (Rockwell International Corp., Houston, TX.) Washington May 1991 37 p

(RTOP 199-04-16-11)

(NASA-TP-3093; L-16898; NAS 1.60:3093) Avail: CASI HC A03/MF A01

ALGORITHMS, BARYONS, COMPUTER PROGRAMS, EXTRATERRESTRIAL RADIATION, RADIATION COUNTERS, RADIATION DOSAGE, RADIATION SHIELDING, RADIATION TRANSPORT

N91-26107*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

RADIATION RISK PREDICTIONS FOR SPACE STATION FREEDOM ORBITS

FRANCIS A. CUCINOTTA (Rockwell International Corp., Houston, TX.), WILLIAM ATWELL (Rockwell International Corp., Houston, TX.), MARK WEYLAND (Rockwell International Corp., Houston, TX.), ALVA C. HARDY (National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.), JOHN W. WILSON (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), LAWRENCE W. TOWNSEND (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), JUDY L. SHINN (National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.), and ROBERT KATZ (Nebraska Univ., Lincoln.) Washington Jun. 1991 22 p (RTOP 199-04-16-11)

(NASA-TP-3098; L-16903; NAS 1.60:3098) Avail: CASI HC A03/MF A01

BIOLOGICAL MODELS (MATHEMATICS), CELLS (BIOLOGY), IRRADIATION, PHYSIOLOGICAL EFFECTS, RADIATION EFFECTS, RADIATION HAZARDS, SPACE STATION FREEDOM, SPACE STATIONS

N92-15956*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

TRANSPORT METHODS AND INTERACTIONS FOR SPACE RADIATIONS

JOHN W. WILSON (California Univ., Berkeley. Lawrence Berkeley Lab.), LAWRENCE W. TOWNSEND (Old Dominion Univ., Norfolk, VA.), WALTER S. SCHIMMERLING (Old Dominion Univ., Norfolk, VA.), GOVIND S. KHANDELWAL, FERDOUS S. KHAN, JOHN E. NEALY, FRANCIS A. CUCINOTTA, LISA C. SIMONSEN, JUDY L. SHINN, and JOHN W. NORBURY (Rider Coll., Lawrenceville, NJ.) Washington Dec. 1991 615 p (RTOP 199-04-16-11)

(NASA-RP-1257; L-16882; NAS 1.61:1257) Avail: CASI HC A99/MF A06

A review of the program in space radiation protection at the Langley Research Center is given. The relevant Boltzmann equations are given with a discussion of approximation procedures for space applications. The interaction coefficients are related to solution of the many-body Schroedinger equation with nuclear and electromagnetic forces. Various solution techniques are discussed

to obtain relevant interaction cross sections with extensive comparison with experiments. Solution techniques for the Boltzmann equations are discussed in detail. Transport computer code validation is discussed through analytical benchmarking, comparison with other codes, comparison with laboratory experiments and measurements in space. Applications to lunar and Mars missions are discussed.

N92-15959*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

HZETRN: A HEAVY ION/NUCLEON TRANSPORT CODE FOR SPACE RADIATIONS

JOHN W. WILSON (Old Dominion Univ., Norfolk, VA.), SANG Y. CHUN (Old Dominion Univ., Norfolk, VA.), FOROOZ F. BADAVI, LAWRENCE W. TOWNSEND, and STANLEY L. LAMKIN (Analytical Services and Materials, Inc., Hampton, VA.) Dec. 1991 47 p (RTOP 593-42-11-01)

(NASA-TP-3146; L-16952; NAS 1.60:3146) Avail: CASI HC A03/MF A01

COMPUTER PROGRAMS, HEAVY IONS, NUCLEONS, PARTICLE INTERACTIONS, RADIATION SHIELDING, SPACECRAFT SHIELDING

N92-22218*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

AN EFFICIENT HZETRN (A GALACTIC COSMIC RAY TRANSPORT CODE)

JUDY L. SHINN and JOHN W. WILSON Apr. 1992 17 p (RTOP 593-42-21)

(NASA-TP-3147; L-16954; NAS 1.60:3147) Avail: CASI HC A03/MF A01

COMPUTER PROGRAMS, ENERGETIC PARTICLES, GALACTIC COSMIC RAYS, GRID GENERATION (MATHEMATICS), INTERPOLATION, MATHEMATICAL MODELS, RADIATION SHIELDING, SPATIAL MARCHING, TRANSPORT THEORY

N92-25100°# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

MIRACAL: A MISSION RADIATION CALCULATION PROGRAM FOR ANALYSIS OF LUNAR AND INTERPLANETARY MISSIONS

JOHN E. NEALY, SCOTT A. STRIEPE, and LISA C. SIMONSEN Washington May 1992 16 p

(RTOP 593-42-31-01)

(NASA-TP-3211; L-17044; NAS 1.60:3211) Avail: CASI HC A03/MF A01

COMPUTER PROGRAMS, MANNED SPACE FLIGHT, MATHEMATICAL MODELS, RADIATION DOSAGE, RADIATION TOLERANCE, SPACE EXPLORATION

99

GENERAL

 $\mbox{N91-15975}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensuremath{^{\circ}}}\mbox{\ensur$

ENGINES AND INNOVATION: LEWIS LABORATORY AND AMERICAN PROPULSION TECHNOLOGY

VIRGINIA PARKER DAWSON 1991 277 p

(NASA-SP-4306; NAS 1.21:4306; LC-90-20747) Avail: CASI HC A13/MF A03

This book is an institutional history of the NASA Lewis Research Center, located in Cleveland, Ohio, from 1940, when Congress authorized funding for a third laboratory for the National Advisory Committee for Aeronautics, through the 1980s. The history of the laboratory is discussed in relation to the development of American propulsion technology, with particular focus on the transition in

the 1940s from the use of piston engines in airplanes to jet propulsion and that from air-breathing engines to rocket technology when the National Aeronautics and Space Administration was established in 1958. The personalities and research philosophies of the people who shaped the history of the laboratory are discussed, as is the relationship of Lewis Research Center to the Case Institute of Technology.

Author

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TECHNOLOGY 2000, VOLUME 1

Mar. 1991 416 p Conference held in Washington, DC, 27-28 Nov. 1990

(NASA-CP-3109-VOL-1; NAS 1.55:3109-VOL-1) Avail: CASI HC A18/MF A04

ARTIFICIAL INTELLIGENCE, COMPUTER PROGRAMS, COMPUTER SYSTEMS DESIGN, ROBOTICS, TECHNOLOGY UTILIZATION

N91-24041*# National Aeronautics and Space Administration, Washington, DC.

TECHNOLOGY 2000, VOLUME 2

1991 369 p Conference held in Washington, DC, 27-28 Nov.

(NASA-CP-3109-VOL-2; NAS 1.55:3109-VOL-2) Avail: CASI HC A16/MF A03

CONFERENCES, INFORMATION DISSEMINATION, NASA PROGRAMS, PRODUCT DEVELOPMENT, TECHNOLOGY TRANSFER, TECHNOLOGY UTILIZATION

N91-24972*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

FIRST LDEF POST-RETRIEVAL SYMPOSIUM ABSTRACTS
ARLENE S. LEVINE, comp. Jun. 1991 145 p Symposium
held in Kissimmee, FL, 2-8 Jun. 1991
(RTOP 196-88-00-03)

(NASA-CP-10072; NAS 1.55:10072) Avail: CASI HC A07/MF A02

ATMOSPHERIC EFFECTS, EXTRATERRESTRIAL RADIATION, LONG DURATION EXPOSURE FACILITY, LONG TERM EFFECTS, RADIATION DOSAGE

N91-28060*# National Aeronautics and Space Administration, Washington, DC.

FIRST AMONG EQUALS: THE SELECTION OF NASA SPACE SCIENCE EXPERIMENTS

JOHN E. NAUGLE 1990 145 p

(NASA-SP-4215; NAS 1.21:4215) Avail: CASI HC A07/MF A02

The process is recounted by which NASA and the scientific community have, since 1958, selected individual experiments for NASA space missions. It explores the scientific and organizational issues involved in the selection process and discusses the significance of the process in the character and accomplishments of U.S. space activities.

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TECHNOLOGY 2001: THE SECOND NATIONAL TECHNOLOGY TRANSFER CONFERENCE AND EXPOSITION, VOLUME 1

Dec. 1991 527 p Conference held in San Jose, CA, 3-5 Dec. 1991

(NASA-CP-3136-VOL-1; NAS 1.55:3136-VOL-1) Avail: CASI HC A23/MF A04

ARTIFICIAL INTELLIGENCE, BIOTECHNOLOGY, CONFERENCES, MANUFACTURING, ROBOTICS, TECHNOLOGY TRANSFER

N92-22676*# National Aeronautics and Space Administration, Washington, DC.

TECHNOLOGY 2001: THE SECOND NATIONAL TECHNOLOGY TRANSFER CONFERENCE AND EXPOSITION, VOLUME 2

Dec. 1991 518 p Conference held in San Jose, CA, 3-5 Dec. 1991

(NASA-CP-3136-VOL-2; NAS 1.55:3136-VOL-2) Avail: CASI HC A22/MF A04

GOVERNMENT/INDUSTRY RELATIONS, MANUFACTURING, ROBOTICS, TECHNOLOGY TRANSFER

N92-23280*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

LDEF: 69 MONTHS IN SPACE, FIRST POST-RETRIEVAL SYMPOSIUM, PART 1

ARLENE S. LEVINE, ed. Washington Jan. 1992 603 p Symposium held in Kissimmee, FL, 2-8 Jun. 1991; sponsored by NASA, Washington Original contains color illustrations (RTOP 196-88-00-03)

(NASA-CP-3134-PT-1; L-17042-PT-1; NAS 1.55:3134-PT-1)

CONFERENCES, LONG DURATION EXPOSURE FACILITY, POSTFLIGHT ANALYSIS, SPACEBORNE EXPERIMENTS

N92-24806*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

LDEF: 69 MONTHS IN SPACE. FIRST POST-RETRIEVAL SYMPOSIUM, PART 2

ARLENE S. LEVINE, ed. Jan. 1992 588 p Symposium held in Kissimmee, FL, 2-8 Jun. 1991; sponsored by NASA, Washington Original contains color illustrations (RTOP 196-88-00-03)

(NASA-CP-3134-PT-2; L-17042-PT-2; NAS 1.55:3134-PT-2)

LIFE SCIENCES, LONG DURATION EXPOSURE FACILITY, RADIATION EFFECTS, SPACEBORNE EXPERIMENTS

 $\mbox{N92-24987}\mbox{\ensuremath{^{\circ}}{\#}}$ National Aeronautics and Space Administration, Washington, DC.

THE FEDERAL CONFERENCE ON INTELLIGENT PROCESSING EQUIPMENT

Apr. 1992 205 p Conference held in San Jose, CA, 3-5 Dec. 1991

(NASA-CP-3138; NAS 1.55:3138) Avail: CASI HC A10/MF A03 ARTIFICIAL INTELLIGENCE, COMPUTER AIDED MANUFACTURING, CONFERENCES, CONTROL EQUIPMENT, GOVERNMENTS, MATERIALS SCIENCE, PROCESS CONTROL (INDUSTRY), RESEARCH AND DEVELOPMENT, ROBOT CONTROL, UNITED STATES

N92-27083*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

LDEF: 69 MONTHS IN SPACE. FIRST POST-RETRIEVAL SYMPOSIUM, PART 3

ARLENE S. LEVINE, ed. Washington Jan. 1992 485 p Symposium held in Kissimmee, FL, 2-8 Jun. 1991; sponsored by NASA, Washington Original contains color illustrations (RTOP 196-88-00-03)

(NASA-CP-3134-PT-3; L-17042-PT-3; NAS 1.55:3134-PT-3) Avail: CASI HC A21/MF A04; 1 functional color page

CONFERENCES, LIFE SCIENCES, LONG DURATION EXPOSURE FACILITY, PROPULSION, SATELLITE TEMPERATURE, TEMPERATURE CONTROL, THERMAL CONTROL COATINGS

N92-27218*# National Aeronautics and Space Administration. Langley Research Center, Hampton, VA.

SECOND LDEF POST-RETRIEVAL SYMPOSIUM ABSTRACTS Abstracts Only

ARLENE S. LÉVINE, comp. Jun. 1992 133 p Symposium held in San Diego, CA, 1-5 Jun. 1992; sponsored by NASA, Washington and AIAA (RTOP 196-88-00-03)

(NASA-CP-10097; NAS 1.55:10097) Avail: CASI HC A07/MF

EXTRATERRESTRIAL ENVIRONMENTS, LONG DURATION EXPOSURE FACILITY, RADIATION EFFECTS, SPACEBORNE EXPERIMENTS

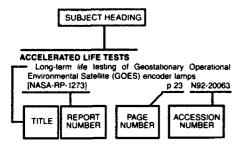
N92-28344*# National Aeronautics and Space Administration, Washington, DC.

NASA ENGINEERS AND THE AGE OF APOLLO

SYLVIA DOUGHTY FRIES 1992 232 p
(NASA-SP-4104; NAS 1.21:4104; LC-90-39761;
ISBN-0-16-036174-5) Avail: CASI HC A11/MF A03
A historical account of NASA's Apollo era engineers is presented. This book is based on interviews that were conducted with fifth and 'historical' conducted. with fifty-one 'typical' engineers.

NASA Scientific and Technical Publications 1991-1992

Typical Subject Index Listing



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ABSORPTIVITY

Optical measurements on solid specimens of solid rocket motor exhaust and solid rocket motor stag [NASA-TP-3177] p.20 N92-20949

ABSTRACTS

Large space structures and systems in the space station era: A bibliography with indexes (NASA-SP-7085(01))

p 17 N91-18199 Large space structures and systems in the space station

era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191

Earth observations and global change decision making: A special bibliography, 1991

[NASA-SP-7092] p 32 N91-30588 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03)

p 18 N92-22317 [NASA-SP-7085(03)]

ACCELERATED LIFE TESTS

Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps INASA-RP-12731 p 23 N92-20063

ACCELERATION (PHYSICS)

Measurement and Characterization of the Acceleration Environment on Board the Space Station INASA-CP-30881

p 48 N91-12401 The microgravity environment of the Space Shuttle Columbia middeck during STS-32

INASA-TP-31401 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32

p 49 N92-11931

ACCEL EROMETERS Measurement and Characterization of the Acceleration

AEROACOUSTICS

[NASA-TP-3052]

(NASA-TP-30201

INASA-TP-30401

INASA-TP-31181

of nonequilibrium thermodynamics

aircraft model

Environment on Board the Space Station p 48 N91-12401 INASA-CP-30881

The microgravity environment of the Space Shuttle Columbia middeck during STS-32 p 48 N92-11930 (NASA-TP-3140)

The effects of video compression on acceptability of images for monitoring life sciences experiment NASA-TP-32391 p 16 N92-33933 ACOUSTIC DUCTS Monograph on propagation of sound waves in curved ducts p 44 N91-15848 (NASA-RP-1248) **ACOUSTIC EXCITATION** Flow-induced resonance of screen-covered cavitie INASA-TP-30521 p 25 N91-15499 ACOUSTIC MEASUREMENT Fourth International Symposium on Long-Range Sound [NASA-CP-3101] NASA-CP-3101] p.44 N91-16582 Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] o 16 N91-18189 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80by 120-foot wind tunnel NASA-TP-3020] p 45 N91-19824 **ACOUSTIC PROPAGATION** Monograph on propagation of sound waves in curved [NASA-RP-1248] p 44 N91-15848 Fourth International Symposium on Long-Range Sound [NASA-CP-3101] p 44 N91-16682 Aeroacoustics of flight vehicles: Theory and practice. Volume 2: Noise control [NASA-RP-1258-VOL-2] p 45 N92-14779 ACOUSTIC PROPERTIES Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 **ACOUSTICS** Wind turbine acoustics INASA-TP-30571 p 44 N91-16679 **ACTIVATION ENERGY** sional stability of laminar flames p 7 N92-17131 INASA-TP-31311 **ACTIVE GALACTIC NUCLEI** Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 **ACTUATORS** The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 The 26th Aerospace Mechanisms p 30 N92-25067 [NASA-CP-3147] **ADAPTERS** Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 ADAPTIVE CONTROL Development of an adaptive failure detection and dentification system for detecting airc aft control element failures [NASA-TP-3051] p 12 N91-25151 Ongoing Progress in Spacecraft Controls
[NASA-CP-10099] p 19 p 19 N92-28730

Flow-induced resonance of screen-covered cavities

Large-scale aeroacoustic research feasibility and

Acoustic and aerodynamic study of a pusher-propeller

Aeroacoustic and aerodynamic applications of the theory

conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel

p 25 N91-15499

p 45 N91-19824

p 45 N91-21828

o 26 N91-25352

[NASA-TM-107793]

The microgravity environment of the Space Shuttle

The High Resolution Accelerometer Package (HiRAP)

ment summary for the first 10 flights

p 49 N92-11931

p 3 N92-22505

Columbia payload bay during STS-32

(NASA-TP-3141)

flight experiment s [NASA-RP-1267]

ACCEPTABILITY

Aeroacoustics of flight vehicles: Theory and practice. Volume 1: Noise sources [NASA-RP-1258-VOL-1] p 45 N92-10598 Aeroaccussis of flight vehicles: Theory and practice. Volume 2: Noise control [NASA-RP-1258-VOL-2] p 45 N92-14779 Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 AFROASSIST Simulation of real-gas effects on pressure distributions for aeroassist flight experiment vehicle and comparison inth prediction (NASA-TP-3157) p 27 N92-20677 Stagnation-point heat-transfer rate predictions at seroassist flight conditions [NASA-TP-3208] p 27 N92-31281 **AERODYNAMIC CHARACTERISTICS** Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80by 120-foot wind tunnel (NASA-TP-30201 p 45 N91-19824 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p 5 N91-24132 Low-speed, powered ground effects of a generic, hypersonic configuration [NASA-TP-3092] p 5 N91-25103 Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics INASA-TP-31181 p 26 N91-25352 Wind tunnel investigation of the interaction and breakdown characteristics of slender wing vortices at subsonic, transonic, and supersonic speed [NASA-TP-31141 p.6 N92-12994 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights INASA-RP-12671 p 3 N92-22505 The natural flow wing-design concept p 7 N92-25202 INASA-TP-31931 Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to (NASA-TP-3233) p.8 N92-30394 Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing/anti-icing fluids p 10 N92-30395 INASA-TP-32381 aerodynamic characteristics of a Wind tunnel transport-type airfoil in a simulated heavy rain environment [NASA-TP-3184] p 8 N92-31532 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers INASA-TP-32361 p 9 N92-33706 **AERODYNAMIC COEFFICIENTS** Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 INASA-TP-26401 p 4 N91-14316 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method INASA-TP-30251 p 4 N91-18031 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] N92-34193 **AERODYNAMIC CONFIGURATIONS** for designing A method blended wing-body configurations for low wave drag INASA-TP-32 11 p 8 N92-32480 **AERODYNAMIC DRAG** Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p.8 N92-33484 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 INASA-TP-32401 p.9 N92-34193 AERODYNAMIC FORCES Payload bay doors and radiator panels familianzation

p 15 N92-20676

o 3 N92-21729

p 3 N92-21844

o 3 N92-27929

p 3 N92-28677

p 3 N92-28679

p 3 N92-31456

p.3 N92-28677

p 33 N91-18505

p 34 N91-21641

p 32 N91-32528

p 34 N92-33097

p 47 N91 17833

p 47 N91-17834

p 30 N91-24603

p 48 N91-28042

p 48 N91-29088

p 18 N92-17768

p 48 N92-22508

p 43 N92-23356

p 30 N92-25067

D 48 N92-27081

p 20 N92-27130

o 48 N92-31455

p 19 N91-30203

p 50 N91-31061

p 50 N92-30302

p 37 N91-10594

p 37 N91-13063

p 37 N91-14711

p 37 N91-14712

[NASA-SP-7011(344)]

o 2 N92-14967

A continuing

A continuing

Aeronautical engineering: A continuing bibliography with **AERODYNAMIC HEATING** Aeronautical engineering: A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] indexes (supplement 273) [NASA-SP-7037(273)] A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference p 2 N92-10974 Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with INASA-TP-31671 ndexes (supplement 272) p 27 N92-24797 indexes (supplement 271) AERODYNAMIC INTERFERENCE NASA-SP-7037(272) [NASA-SP-7037(271)] p 2 N92-14967 Effect of location of aft-mounted nacelles on the Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with longitudinal aerodynamic characteristics of a high-wing indexes (supplement 277) ndexes (supplement 273) [NASA-SP-7037(277)] (NASA-SP-7037(273)) p 3 N92-21729 p.4 N91-13402 [NASA-TP-3047] Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with indexes (supplement 278) Wall-interference assessment and corrections for indexes (supplement 272) transonic NACA 0012 airfoil data from various wind [NASA-SP-7037(278)] [NASA-SP-7037(272)] p 3 N92-21844 Aeronautical engineering: A continuing bibliography with tunnels Aeronautical engineering. A continuing bibliography with [NASA-TP-3070] ndexes (supplement 275) p 5 N91-20043 indexes (supplement 277) Installation effects of wing-mounted turbolan nacelle-pylons on a 1/17-scale, twin-engine, tow-wing (NASA-SP-7037(275)) [NASA-SP-7037(277)] p 3 N92-27929 Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with indexes (supplement 280) transport model indexes (supplement 278) p 7 N92-19002 [NASA-TP-3168] [NASA-SP-7037(280)] [NASA-SP-7037(278)] p 3 N92-28677 **AERONAUTICS** Comparison of a two-dimensional adaptive-wall technique with analytical wall interference correction Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with indexes (supplement 275) indexes (supplement 278) [NASA-SP-7037(278)] [NASA-SP-7037(275)] [NASA-TP-3132] p 3 N92-28679 p 7 N92-20494 A simplified method for thermal analysis of a cowl leading Aeronautical engineering: A continuing bibliography with AEROSOLS edge subject to intense local shock-wave-interference indexes (supplement 280) SAM 2 measurements of the polar stratospheric aerosol. [NASA-SP-7037(280)] p 3 N92-31456 Volume 9: October 1982 - April 1983 heating [NASA-TP-3167] [NASA-RP-1244] p 27 N92-24797 **AEROELASTIC RESEARCH WINGS** AERODYNAMIC LOADS Design of control laws for flutter suppression based on Volcanism-Climate Interactions A method for the design of transonic flexible wings [NASA-CP-10062] the aerodynamic energy concept and comparisons with NASA-TP-3045] p 10 N91-14323 International Workshop on Stratospheric Aerosols: other design methods AFRODYNAMIC NOISE NASA-TP-3056) p 29 N91-10328 Measurements, Properties, and Effects Aeroacoustics of flight vehicles: Theory and practice. [NASA-CP-3114] AFROEL ASTICITY SAGE 1 data user's guide (NASA-RP-1275) Volume 1: Noise sources A method for the design of transpric flexible wings INASA-RP-1258-VOL-11 p 45 N92-10598 [NASA-TP-3045] p 10 N91-14323 AEROSPACE ENGINEERING Annoyance caused by advanced turboprop aircraft Development of an integrated aeroservoelastic analysis flyover noise: Comparison of different program and correlation with test data NASA patent abstracts bibliography: A continuing NASA-TP-3120) configurations p 2 N91-26113 bibliography. Section 1: Abstracts (supplement 38) [NASA-SP-7039(38)-SECT-1] p 47 N91-[NASA-TP-3104] p 45 N92-11758 Longitudinal aerodynamic characteristics of a subsonic Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p.4 NASA patent abstracts bibliography: A continuing energy-efficient transport configuration in the National p 45 N92-32948 bibliography. Section 2: Indexes (supplement 38) Transonic Facility AERODYNAMIC STABILITY [NASA-SP-7039(38)-SECT-2] [NASA-TP-2922] p 6 N91-28143 Planform curvature effects on flutter characteristics of Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p 17 N91-21188 Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack a wing with 56 deg leading-edge sweep and panel aspect [NASA-TP-3022] p 12 N91-10079 ratio of 1.14 Wind-tunnel static and free-flight investigation of (NASA-TP-3116) p 11 N92-13054 The 25th Aerospace Mechanisms Symposium high-angle-of-attack stability and control characteristics of [NASA-CP-3113] **AEROMANEUVERING** a model of the EA-6B airplane Hypervelocity atmospheric flight: Real gas flow fields NASA patent abstracts bibliography: A continuing [NASA-TP-3194] bibliography. Section 1: Abstracts (supplement 39) [NASA-SP-7039(39)-SECT-1] p 48 N91p 7 N92-25276 NASA-RP-1249) p 26 N91-20418 **AERODYNAMICS** AÉRONAUTICAL ÉNGINEERING Aeronautical engineering: A continuing bibliography with NASA patent abstracts bibliography: A continuing Aeronautical engineering: A continuing bibliography with indexes (supplement 256) dexes (supplement 256) bibliography. Section 2: Indexes (supplement 39) [NASA-SP-7037(256)] p 1 N91-10002 INASA-SP-7039(39)-SECT-21 [NASA-SP-7037(256)] p 1 N91-10002 Aeronautical engine ering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with Beyond the Baseline 1991: Proceedings of the Space indexes (supplement 257) ent 257) Station Evolution Symposium, Volume 2: Space Station [NASA-SP-7037(257)] p 1 N91-12589 [NASA-SP-7037(257)] p 1 N91-12589 Freedom, part 1 Aeronautical engine ering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with [NASA-CP-10083-VOL-2-PT-1] indexes (supplement 258) ent 258) NASA patent abstracts bibliography: A continuing (NASA-SP-7037(258)) p 1 N91-13399 [NASA-SP-7037(258)] p 1 N91-13399 bibliography. Section 1: Abstracts (supplement 40) Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with [NASA-SP-7039(40)-SECT-1] indexes (supplement 260) nt 260) The 1992 Goddard Conference on Space Applications [NASA-SP-7037(260)] p 1 N91-15978 INASA-SP-7037(260)1 p 1 N91-15978 of Artificial Intelligence Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with [NASA-CP-3141] indexes (supplement 259) indexes (supplement 259) The 26th Aerospace Mechanisms Symposium [NASA-SP-7037(259)] p 1 N91-15979 [NASA-SP-7037(259)] p 1 N91-15979 NASA-CP-31471 Flight Mechanics/Estimation Theory Symposium, 1990 NASA-CP-3102] p.14 N91-17073 Aeronautical engineering: A cumulative index to a NASA patent abstracts bibliography: A continuing INASA-CP-31021 continuing bibliography (supplement 261) bibliography. Section 2: Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N93 Aeronautical engineering: A cumulative index to a [NASA-SP-7037(261)] p 1 N91-23073 continuing bibliography (supplement 261) (NASA-SP-7037(261)) p Aeronautical engineering: A continuing bibliography with p 1 N91-23073 The 1990 NASA Aerospace Battery Workshop indexes (supplement 262) Aeronautical engineering: A continuing bibliography with indexes (supplement 262) (NASA-SP-7037(262)) [NASA-CP-3119] p 1 N91-23074 NASA patent abstracts bibliography: A continuing Aeronautical engineering: A continuing bibliography with [NASA-SP-7037(262)] p 1 N91-23074 indexes (supplement 265) bibliography. Section 2: Indexes (supplement 41) [NASA-SP-7039(41)-SECT-2] p 48 N9 Aeronautical engine ering: A continuing bibliography with [NASA-SP-7037(265)] p 2 N91-24095 indexes (supplement 265) [NASA-SP-7037(265)] Aeronautical engineering: A continuing bibliography with **AEROSPACE ENVIRONMENTS** p 2 N91-24095 indexes (supplement 263) Space Photovoltaic Research and Technology Aeronautical engineering: A continuing bibliography with [NASA-SP-7037(263)] o 2 N91-24096 Conterence indexes (supplement 263) Aeronautical engineering: A continuing bibliography with [NASA-CP-3121] [NASA-SP-7037(263)] p 2 N91-24096 indexes (supplement 264) Analyses of risks associated with radiation exposure ering: A continuing bibliog aphy with Aeronautical engine [NASA-SP-7037(264)] p 2 N91-24097 from past major solar particle events indexes (supplement 264) Aeronautical engine ering: A continuing bibliography with [NASA-TP-3137] [NASA-SP-7037(264)] indexes (supplement 266) Electrical and chemical interactions at Mars Workshop, Airborne Wind Shear Detection and Warning Systems [NASA-SP-7037(266)] p 2 N91-27122 oart 1 Third Combined Manufacturers' and Technologists' Aeronautical engine ering: A continuing bibliography with [NASA-CP-10093] indexes (supplement 268) Conterence, part 1 p 9 N91-24166 AEROSPACE MEDICINE [NASA-CP-10060-PT-1] (NASA-SP-7037(268)) p 2 N91-30077 Aerospace medicine and biology: A bibliography with indexes (supplement 341) Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with ndexes (supplement 266) indexes (supplement 267) [NASA-SP-7011(341)] [NASA-SP-7037(266)] p 2 N91-27122 [NASA-SP-7037(267)] p 2 N92-10001 Aerospace medicine and biology. Aeronautical engineering: A continuing bibliography with Aeronautical engine ering: A continuing bibliography with ndexes (supplement 268) bibliography with indexes (supplement 342) [NASA-SP-7011(342)] p 37 indexes (supplement 270) (NASA-SP-7037(268)) p 2 - N91-30077 [NASA-SP-7037(270)] p 2 N92-10973 Aerospace medicine and biology: Aeronautical engineering: A continuing bibliography with Aeronautical engineering: A continuing bibliography with indexes (supplement 269) ndexes (supplement 267) bliography with indexes (supplement 343) INASA-SP-7037(267)) p 2 N92-10001 INASA-SP-7037(269)1 p 2 N92-10974 [NASA-SP-7011(343)] Aeronautical engineering: A continuing bibliography with indexes (supplement 270) Aeronautical engineering. A continuing bibliography with indexes (supplement 271) Aerospace medicine and biology Λ continuing bibliography with indexes (supplement 344)

[NASA-SP-7037(271)]

p 2 N92-10973

[NASA-SP-7037(270)]

Aerospace medicine and biology: A cumulative index	AEROTHERMODYNAMICS	Effect of afterbody geometry on aerodynamic
to a continuing bibliography (supplement 345)	Advanced Hypervelocity Aerophysics Facility	characteristics of isolated nonaxisymmetric afterbodies at
[NASA-SP-7011(345)] p 37 N91-16547	Workshop [NASA-CP-10031] p 13 N91-24211	transonic Mach numbers [NASA-TP-3236] p 9 N92-33706
Aerospace medicine and biology: A continuing	AFTERBODIES	AIRCRAFT CONSTRUCTION MATERIALS
bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700	Parametric study of afterbody/nozzle drag on twin	Eighth DOD/NASA/FAA Confi ence on Fibrous
	two-dimensional convergent-divergent nozzles at Mach	Composites in Structural Design, part 2
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347)	numbers from 0.60 to 1.20	[NASA-CP-3087-PT-2] p 22 N92-32574
[NASA-SP-7011(347)] > 37 N91-23701	[NASA-TP-2640] p.4 N91-14316	AIRCRAFT CONTROL
Aerospace medicine and biology: A continuing	Effect of afterbody geometry on aerodynamic	A controls engineering approach for analyzing airplane
bibliography with indexes (supplement 348)	characteristics of isolated nonaxisymmetric atterbodies at	input-output characteristics
[NASA-SP-7011(348)] p 37 N91-23702	transonic Mach numbers	(NASA-TP-3072) p 12 N91-20128
Aerospace medicine and biology: A continuing	[NASA-TP-3236] p 9 N92-33706	Fourth NASA Workshop on Computational Control of
bibliography with indexes (supplement 349)	AGING (MATERIALS)	Flexible Aerospace Systems, pert 2
[NASA-SP-7011(349)] p 37 N91-24731	Long-term life testing of Geostationary Operational	[NASA-CP-10065-PT-2] p 17 N91-22331
Aerospace medicine and biology: A continuing	Environmental Satellite (GOES) encoder lamps	Development of an adaptive failure detection and
bibliography with indexes (supplement 350)	[NASA-RP-1273] p 23 N92-20063 The 1991 International Conference on Aging Aircraft and	identification system for detecting aircraft control element
[NASA-SP-7011(350)] p 38 N91-25600	Structural Airworthiness	failures
Aerospace medicine and biology: A continuing	[NASA CP-3160] p 31 N92-30106	[NASA-TP-3051] p 12 N91-25151
bibliography with indexes (supplement 351)	AIR	Application and flight test of linearizing transformations
[NASA-SP-7011(351)] p 38 N91-27756	Calculations and curve fits of thermodynamic and	using measurement feedback to the nonlinear control
Aerospace medicine and biology: A continuing	transport properties for equilibrium air to 30000 K	problem
bibliography with indexes (supplement 352)	[NASA-RP-1260] p 26 N92-11285	[NASA-TP-3154] p 12 N91-30154
[NASA-SP-7011(352)] p 38 N91-28729	AIR BREATHING ENGINES	Visually Guided Control of Movement
Aerospace medicine and biology: A continuing	Aeropropulsion 1991	(NASA-CP-3118) p 39 N92-21467
bibliography with indexes (supplement 353)	[NASA-CP-10063] p 12 N91-20086	Wind-tur el static and free-flight investigation of
(NASA-SP-7011(353)) p 38 N91-31760	AIR JETS	high-angle-of Littack stability and control characteristics of
Aerospace medicine and biology: A continuing	Venturi air-jet vacuum ejectors for high-volume	a model of the EA-68 airplane
bibliography with indexes (supplement 354)	atmospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546	[NASA-TP-3194] p 7 N92-25276
[NASA-SP-7011(354)] p 38 N92-12404	AIR POLLUTION	AIRCRAFT DESIGN
Aerospace medicine and biology: A continuing	The atmospheric effects of stratospheric aircraft: A first	Effect of location of aft-mounted nacelles on the
bibliography with indexes (supplement 355)	program report	longitudinal aerodynamic characteristics of a high-wing transport airplane
[NASA-SP-7011(355)] p 38 N92-12412	[NASA-RP-1272] p 33 N92-19121	[NASA-TP-3047] p.4 N91-13402
Aerospace medicine and biology: A continuing	AIR SAMPLING	A method for the design of transonic flexible wings
bibliography with indexes (supplement 356)	Venturi air-jet vacuum ejectors for high-volume	[NASA-TP-3045] p.10 N91-14323
[NASA-SP-7011(356)] p 38 N92-15538	atmospheric sampling on aircraft platforms	Proceedings of the X-15 First Flight 30th Anniversary
Aerospace medicine and biology: A continuing	(NASA-TP-3183) p 11 N92-20546	Celebration
bibliography with indexes (supplement 357)	AIR TRAFFIC CONTROL	[NASA-CP-3105] p 10 N91-20071
[NASA-SP-7011(357)] p 39 N92-21714	Aviation Safety/Automation Program Conference	Aeropropulsion 1991
Aerospace medicine and biology: A continuing	[NASA-CP-3090] p 9 N91-10936	(NASA-CP-10063) p 12 N91-20086
bibliography with indexes (supplement 359)	Report of the workshop on Aviation Safety/Automation	Transonic Symposium: Theory, Application and
[NASA-SP-7011(359)] p 39 N92-21715	Program	Experiment, volume 2
Aerospace medicine and biology: A cumulative index	{NASA-CP-10054} p 9 N91-15141	[NASA-CP-3020-VOL-2] p 5 N91-24132
to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026	Flight tests with a data link used for air traffic control	Evaluation of cloud detection instruments and
* **	information exchange	performance of laminar-flow leading-edge test articles
Fifth Annual Workshop on Space Operations	[NASA-TP-3135] p 11 N91-31143	during NASA Leading-Edge Flight-Test Program
Applications and Research (SOAR 1991), volume 2	Flight deck benefits of integrated data link	[NASA-TP-2888] p 11 N91-24199
{NASA-CP-3127-VOL-2} p 41 N92-22324	communication	[NASA-TP-2888] p.11 N91-24199 The natural flow wind-design concept
{NASA-CP-3127-VOL-2} p.41 N92-22324 Aerospace medicine and biology: A continuing	communication [NASA-TP-3219] p 10 N92-21459	The natural flow wing-design concept
{NASA-CP-3127-VOL-2} p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362)	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL)	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068	communication (NASA-TP-3219) p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation	The natural flow wing-design concept
{NASA-CP-3127-VOL-2} p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362)	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program	The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 Computational Structures Technology for Airframes and
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141	The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 Computational Structures Technology for Auframes and Propulsion Systems
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) Aerospace medicine and biology: A continuing	communication p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION	The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p.31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278)
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363)	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677
NASA-CP-3127-VOL-2 p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) (NASA-SP-7011(362) p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) (NASA-SP-7011(363) p 39 N92-30987	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990	The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 Computational Structures Technology for Airtrames and Propulsion Systems [NASA-CP-3142] p.31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p.3 N92-28677 Aeronautical engineering: A continuing bibliography with
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) INASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024	The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p.31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p.3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275)
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation	The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p.31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p.3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p.3 N92-28679
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) (NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutonal session	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A bibliography with indexes (supplement 363) (NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(363)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES	communication [(NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [(NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [(NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(363)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 ACROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 ACROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 39 N92-30987 [NASA-CP-10090] p 39 N92-31517 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 40 N92-21517 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 [NASA-Scientific and technical publications: A catalog	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) (NASA-SP-7011(362)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) (NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session (NASA-CP-10090) p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) (NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference	communication [(NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists'	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 ACROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 ACROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications. A catalog of special publications, reference publications, conference publications, and technical papers, 1989	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/(terative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Arenspace medicine and biology: A continuing bibliography with indexes (supplement 361) Arenspace medicine and biology: A continuing bibliography with indexes (supplement 361) NASA-SP-7011(361)] p 39 N92-27433 continuing bibliography with indexes (supplement 363) NASA-SP-7011(363)] p 39 N92-30987 ACROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session (NASA-CP-10090) p 20 N92-21517 ACROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 (NASA-SP-7064-SUPPL-41 p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 (NASA-SP-7063(04)) p 47 N91-13374	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES [Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical publications, conference publications, and technical publications, conference publications, and technical papers, 1989 [NASA-P-7063(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative	communication [(NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1999-1990 [(NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [(NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [(NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [(NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems:	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA-FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 **AEROSPACE PLANES** **Rocket-Based Combined-Cycle (RBCC)** **Propulsion Technology Workshop. Tutorial session (NASA-CP-10090) **AEROSPACE SCIENCES** **NASA Thesaurus supplement: A four part cumulative supplement 41 (NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus supplement to the 1988 edition of the NASA Thesaurus supplement to the 1988 edition of the NASA Thesaurus supplement to the 1988 edition of the NASA Thesaurus supplement to the 1988 edition of the NASA Thesaurus	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-311] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists'	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframs and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-324] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Aerospace E-LANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 Aerospace SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA-SP-7063(04)] p 47 N91-13374 NASA-Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5)	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-P-1277] p 36 N92-25981 AIR WATER COUPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Arospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(362)] p 39 N92-27068 continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 47 N92-30987 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 [NASA-SP-7064(4)] p 47 N91-13374 [NASA-SP-7064(4)] p 47 N91-13374 [NASA-SP-7064-SUPPL-5] p 47 N91-19962	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 Aeropropulsion 1991
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 **AEROSPACE PLANES** **Rocket-Based Combined-Cycle (RBCC)** **Propulsion Technology Workshop. Tutorial session (NASA-CP-10090) p 20 N92-21517 **AEROSPACE SCIENCES** **NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) (NASA-SP-7064-SUPPL-4] p 47 N91-10804 **NASA Scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA SP-7064-SUPPL-5] p 47 N91-19962 NASA Scientific and technical publications: A catalog	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-311] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-CP-117] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Arospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(362)] p 39 N92-27068 continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 47 N92-30987 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 [NASA-SP-7064(4)] p 47 N91-13374 [NASA-SP-7064(4)] p 47 N91-13374 [NASA-SP-7064-SUPPL-5] p 47 N91-19962	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 Aeropropulsion 1991
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Areospace medicine and biology: A continuing bibliography with indexes (supplement 362) Areospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 ACROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p 47 N91-19962 NASA Scientific and technical publications: A catalog of special publications, reference publications. Conference	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIR WATER INTERACTIONS AIR WATER INTERACTIONS AIR WATER INTERACTIONS Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/(terative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AirCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 39 N92-30987 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 20 N92-21517 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA Thesaurus supplement 4 (Supplement 4) NASA Scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement 5) (NASA-SP-7064-SUPPL-5) p 47 N91-19962 NASA Scientific and technical publications, a catalog of special publications, reference publications, a catalog of special publications, reference publications, conference publications, and technical papers. 1987-1990	communication [(NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1999-1990 [(NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [(NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [(NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [(NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [(NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmosphenic sampling on aircraft platforms [(NASA-TP-3183] p 11 N92-20546 AIRCRAFT COMMUNICATION	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267)
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIEMCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 51 [NASA-SP-7064-SUPPL-5] p 47 N91-19962 NASA scientific and technical publications, a catalog of special publications, reference publications. A catalog of special publications and technical publications. A catalog of special publications, reference publications, conference publications, and technical papers, 1997-1990 [NASA-SP-7063(05)] p 47 N91-24939	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1989-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Ventur air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] AIRCRAFT COMMUNICATION Flight deck cenefits of integrated data link	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 Aeropropulsion 1997 [NASA-CP-3049] p 12 N92-22510
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 51 [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 51 [NASA-SP-7064-SUPPL-5] p 47 N91-19962 NASA scientific and technical publications, a catalog of special publications, reference publications, conference publications, and technical papers, 1987-1990 [NASA-SP-7063(05)] p 47 N91-24939 AEROSPACE SYSTEMS Second Conference on NDE for Aerospace Requirements	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility (NASA-P-1277] p 36 N92-25981 AIR WATER INTERACTIONS AIR WATER INTERACTIONS Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546 AIRCRAFT COMMUNICATION Flight deck genefits of integrated data link communication	The natural flow wing-design concept [NASA-TP-3193] p7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-CP-3037(267)] p2 N92-10001 Aeropropulsion 1987 [NASA-CP-3049] p12 N92-22510 AIRCRAFT EQUIPMENT
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Arospace medicine and biology: A continuing bibliography with indexes (supplement 361) Arospace medicine and biology: A continuing bibliography with indexes (supplement 361) Arospace medicine and biology: A continuing bibliography with indexes (supplement 363) Arospace medicine and biology: A continuing bibliography with indexes (supplement 363) NASA-SP-7011(363)] p 39 N92-27433 Arospace medicine and biology: A continuing bibliography with indexes (supplement 363) NASA-SP-7011(363)] p 39 N92-30987 ARROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session (NASA-CP-10090) p 20 N92-21517 ARROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 (NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 (NASA-SP-7063(04)) p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement 5) (NASA-SP-7063(04)) p 47 N91-19962 NASA Scientific and technical publications, conference publications, and technical papers, 1987-1990 (NASA-SP-7063(05)) p 47 N91-24939 ARROSPACE SYSTEMS Second Conference on NDE for Aerospace Requirements (NASA-CP-3091) p 16 N91-18189	communication [(NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1999-1990 [(NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [(NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [(NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [(NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [(NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmosphenic sampling on aircraft platforms [(NASA-TP-318]] p 10 N92-20546 AIRCRAFT COMMUNICATION Flight deck cenefits of integrated data link communication [(NASA-TP-3219]] p 10 N92-21459	The natural flow wing-design concept [NASA-TP-3193] p7 N92-25202 Computational Structures Technology for Airframs and Propulsion Systems [NASA-CP-3142] p31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p8 N92-32480 Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-324] p8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p9 N92-33656 Aeropropulsion 1991 [NASA-CP-10063] p12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-CP-3049] p12 N92-22510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 39 N92-30987 [NASA-SP-7011(363)] p 39 N92-30987 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 20 N92-21517 [NASA-CP-10090] p 20 N92-21517 [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA Thesaurus supplement: A four part cumulative supplement 41 (NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-70643(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-70643(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-70643(04)] p 47 N91-19962 NASA Scientific and technical publications, conference publications, and technical papers, 1987-1990 [NASA-SP-70645(05)] p 47 N91-24939 [NASA-SP-70645(05)] p 47 N91-24939 [NASA-SP-70649(05)] p 47 N91-24939 [NASA-SP-7069(05)] p 16 N91-18189 [NASA-CP-3091] p 16 N91-18189	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-311] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] AIRCRAFT COMMUNICATION Flight deck penefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 AIRCRAFT CONFIGURATIONS	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-CP-3049] p 12 N92-22510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267)
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace Medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 Acrospace Sciences NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 (NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement 61 (NASA-SP-7064-SUPPL-5) p 47 N91-19962 NASA scientific and technical publications, a catalog of special publications, reference publications, conference publications, and technical papers, 1987-1990 [NASA-SP-7063(04)] p 47 N91-19962 NASA-SP-7063(05)] p 47 N91-24939 Acrospace Systems Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmosphenc sampling on aircraft platforms [NASA-TP-3183] AIRCRAFT COMMUNICATION Flight deck genefits of integrated data link communication [NASA-TP-3219] AIRCRAFT CONFIGURATIONS Span reduction effects on the flutter characteristics of	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7063(04)] p 47 N91-13374 NASA Scientific and technical publications. A catalog of special publications, reference publications, conference publications, and technical papers, 1987-1990 [NASA-SP-7063(04)] p 47 N91-19962 NASA Scientific and technical publications. A catalog of special publications, reference publications, conference publications, and technical papers, 1987-1990 (NASA-SP-7063(05)] p 47 N91-24939 AEROSPACE SYSTEMS Second Conference on NDE for Aerospace Requirements [NASA-CP-10065-PT-1] p 16 N91-18189 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-311] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] AIRCRAFT COMMUNICATION Flight deck penefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 AIRCRAFT CONFIGURATIONS	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 Aircraft Englines Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-CP-3049] p 12 N92-22510 Aircraft EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-CP-3049] p 12 N92-22510 Aircraft EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-CP-3049] p 12 N92-22510 Aircraft EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 Aircraft GuIDANCE
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Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace Medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace Collections [NASA-CP-10090] p 20 N92-31517 Acrospace Sciences NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04]) p 47 N91-13374 NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p 47 N91-19962 NASA scientific and technical publications, conference publications, and technical papers, 1987-1990 [NASA-SP-7063(05)] p 47 N91-24939 Acrospace Requirements Second Conference on NDE for Aerospace Requirements [NASA-CP-3094] p 47 N91-22307 Acrospace Systems, part 2 P 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-CP-1311] p 36 N92-25981 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume almospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546 AIRCRAFT COMMUNICATION Flight deck penefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 AIRCRAFT CONFIGURATIONS Span reduction effects on the flutter characteristics of airow-wing supersonic transport configurations [NASA-TP-3077] p 11 N91-21127	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-3097(267)] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT GUIDANCE Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists'
[NASA-CP-3127-VOL-2] p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7063(04)] p 47 N91-13374 NASA cientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-19962 NASA scientific and technical publications, conference publications, and technical publications. A catalog of special publications, reference publications, conference publications, and technical publications. [NASA-SP-7063(05)] p 47 N91-24939 [NASA-SP-7063(communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1989-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wailops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Ventur air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546 AIRCRAFT COMMUNICATION Flight deck cenefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 AIRCRAFT CONFIGURATIONS Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations [NASA-TP-3077] p 11 N91-21127 Static internal performance of ventral and rear nozzle	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 Aeropropulsion 1987 {NASA-CP-3049] p 12 N92-22510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT GUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT GUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT GUIPMNCE Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 2
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27068 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace Medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Acrospace Collections [NASA-CP-10090] p 20 N92-31517 Acrospace Sciences NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04]) p 47 N91-13374 NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p 47 N91-19962 NASA scientific and technical publications, conference publications, and technical papers, 1987-1990 [NASA-SP-7063(05)] p 47 N91-24939 Acrospace Requirements Second Conference on NDE for Aerospace Requirements [NASA-CP-3094] p 47 N91-22307 Acrospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546 AIRCRAFT COMMUNICATION Flight deck genefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 AIRCRAFT CONFIGURATIONS Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations [NASA-TP-3077] p 11 N91-21127 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-3097(267)] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT GUIDANCE Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists'
Acrospace medicine and biology: A continuing bibliography with indexes (supplement 362) Areospace medicine and biology: A continuing bibliography with indexes (supplement 362) Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 41 NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 51 NASA-SP-7064-SUPPL-5] p 47 N91-19962 NASA Scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1987-1990 (NASA-SP-7063(95)] p 47 N91-24939 AEROSPACE SYSTEMS Second Conference on NDE for Aerospace Requirements (NASA-CP-3091] p 16 N91-18189 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 INASA-CP-10065-PT-1] p 17 N91-22331 Methods of applied dynamics	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] AIRCRAFT COMMUNICATION Flight deck genefits of integrated data link communication [NASA-TP-3183] AIRCRAFT CONFIGURATIONS Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations [NASA-TP-3077] Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-2510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-20001 AIRCRAFT GUIDANCE Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695
(NASA-CP-3127-VOL-2) p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) N92-27068 (NASA-SP-7011(361)] p 39 N92-27068 (NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) (NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) (NASA-SP-7011(363)] p 39 N92-30987 AeroSpace PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session (NASA-CP-10090) p 20 N92-21517 AeroSpace SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) (NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 (NASA-SP-7064-SUPPL-5) p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) (NASA-SP-706304)) p 47 N91-19962 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1987-1990 (NASA-SP-706305)) p 47 N91-24939 Aerospace Systems Requirements NASA-CP-3091] p 16 N91-18189 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 NASA-CP-10065-PT-1) p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 NASA-CP-10065-PT-1) p 17 N91-22331 Methods of applied dynamics (NASA-RP-1262) p 24 N91-25303 AeroSPACE VEHICLES The 1991 International Aerospace and Ground	communication [(NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1999-1990 [(NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [(NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility [(NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 1 [(NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [(NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmosphenic sampling on aircraft platforms [(NASA-TP-3183] p 11 N92-20546 AIRCRAFT COMMUNICATION Flight deck cenefits of integrated data link communication [(NASA-TP-3219] p 10 N92-21459 AIRCRAFT COMFIGURATIONS Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations [(NASA-TP-3193] p 1 N91-21127 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [(NASA-TP-3193] p 7 N92-25202 Applications of a direct/iterative design method to	The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p 8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p 8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 AIRCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-22510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-22510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p 2 N92-10001 AIRCRAFT GUIDANCE Airchaft GuiDANCE Airchaft GuiDANCE Airchaft HAZARDS
(NASA-CP-3127-VOL-2) p 41 N92-22324 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 AEROSPACE PLANES Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop. Tutorial session [NASA-CP-10090] p 20 N92-21517 AEROSPACE SCIENCES NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 4) [NASA-SP-7064-SUPPL-4] p 47 N91-10804 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers, 1989 [NASA-SP-7063(04)] p 47 N91-13374 NASA Thesaurus supplement: A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p 47 N91-13374 NASA scientific and technical papers, 1989 [NASA-SP-7065(05)] p 47 N91-19962 NASA scientific and technical publications, conference publications, and technical publications. A catalog of special publications, reference publications, conference publications, and technical publications. Conference Publications (SASA-PP-7063(05)] p 47 N91-24939 AEROSPACE SYSTEMS Second Conference on NDE for Aerospace Requirements [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-25303 AEROSPACE VEHICLES	communication [NASA-TP-3219] p 10 N92-21459 AIR TRAFFIC CONTROLLERS (PERSONNEL) Report of the workshop on Aviation Safety/Automation Program [NASA-CP-10054] p 9 N91-15141 AIR TRANSPORTATION Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIR WATER INTERACTIONS NASA Wallops Flight Facility Air-Sea Interaction Research Facility (NASA-RP-1277] p 36 N92-25981 AIRBORNE EQUIPMENT Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms [NASA-TP-3183] AIRCRAFT COMMUNICATION Flight deck genefits of integrated data link communication [NASA-TP-3183] AIRCRAFT CONFIGURATIONS Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations [NASA-TP-3077] Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202	The natural flow wing-design concept [NASA-TP-3193] p7 N92-25202 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p31 N92-25911 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p3 N92-28679 A method for designing blended wing-body configurations for low wave drag [NASA-TP-3261] p8 N92-32480 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p22 N92-32513 Applications of a direct/iterative design method to complex transonic configurations [NASA-TP-3234] p8 N92-33484 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p9 N92-33656 AirCRAFT ENGINES Aeropropulsion 1991 [NASA-CP-10063] p12 N91-20086 Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p2 N92-10001 Aeropropulsion 1987 [NASA-CP-3049] p12 N92-22510 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p2 N92-10001 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p2 N92-10001 AIRCRAFT EQUIPMENT Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p2 N92-10001 AIRCRAFT GUIDANCE Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-2] p9 N91-11695 Airborne Wind Shear Detection and Warning Systems

The 1991 International Aerospace and Ground	AIRCRAFT WAKES	ALUMINIDES
Conference on Lightning and Static Electricity, volume 1	Acoustic and aerodynamic study of a pusher-c upeller	Oxidation characteristics of Ti-25Ai-10Nb-3V-1Mo
[NASA-CP-3106-VOL-1] p 35 N91-32599 AIRCRAFT INDUSTRY	aircraft model	Intermetallic alloy
The 1991 International Conference on Aging Aircraft and	[NASA-TP-3040] p 45 N91-21828	[NASA-TP-3044] p 22 N91-13522 ALUMINUM ALIDYS
Structural Airworthiness	AIRFOIL PROFILES Calibration of the 13- by 13-inch adaptive wall test	Surface effects on hydrogen permeation through
[NASA-CP-3160] p 31 N92-30106	section for the Langley 0.3-meter transonic cryogenic	Ti-14AI-21Nb alloy
AIRCRAFT MAINTENANCE	tunnel	[NASA-TP-3109] p 23 N91-20266
The 1991 International Conference on Aging Aircraft and	[NASA-TP-3049] p 13 N91-13461	ANECHOIC CHAMBERS
Structural Airworthiness	A method for the design of transonic flexible wings	Annoyance caused by aircraft en route noise
[NASA-CP-3160] p 31 N92-30106	[NASA-TP-3045] p 10 N91-14323	[NASA-TP-3165] p 45 N92-20479
AIRCRAFT MANEUVERS	Wall-interference assessment and corrections for	ANGLE OF ATTACK
Control integration concept for hypersonic cruise-turn maneuvers	transonic NACA 0012 airfoil data from various wind tunnels	Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack
[NASA-TP-3136] p 13 N92-20195	(NASA-TP-3070) p 5 N91-20043	NASA-TP-3022] p 12 N91-10079
AIRCRAFT MODELS	Full-scale semispan tests of a business-jet wing with a	Transonic and supersonic Euler computations of
A controls engineering approach for analyzing airplane	natural laminar flow airfoil	vortex-dominated flow fields about a generic fighter
input-output characteristics	[NASA-TP-3133] p 6 N91-30098	[NASA-TP-3156] p.6 N92-10011
[NASA-TP-3072] p 12 N91-20128	Influence of airfoil geometry on delta wing leading-edge	Wind-tunnel static and free-flight investigation of
Acoustic and aerodynamic study of a pusher-propeller	vortices and vortex-induced aerodynamics at supersonic	high-angle-of-attack stability and control characteristics of
aircraft model [NASA-TP-3040] p 45 N91-21828	speeds	a model of the EA-6B airplane (NASA-TP-3194) p.7 N92-25276
Low-speed, powered ground effects of a generic,	{NASA-TP-3105} p 7 N92-20038 AIRFOILS	ANGULAR DISTRIBUTION
hypersonic configuration	Numerical study of the aerodynamic effects of using	Inclusive inelastic scattering of heavy ions and nuclear
[NASA-TP-3092] p.5 N91-25103	sultur hexafluoride as a test gas in wind tunnels	correlations
Two-dimensional aerodynamic characteristics of several	[NASA-TP-3086] p.5 N91-22070	[NASA-TP-3026] p 46 N91-13985
polygon-shaped cross-sectional models applicable to	Comparison of a two-dimensional adaptive-wall	ANGULAR VELOCITY
helicopter fuselages	technique with analytical wall interference correction	A nonlinear estimator for reconstructing the angular
[NASA-TP-3233] p 8 N92-30394	techniques	velocity of a spacecraft without rate gyros
Effect of atterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at	[NASA-TP-3132] p 7 N92-20494	[NASA-TP-3178] p 24 N92-13343
transonic Mach numbers	Wind tunnel aerodynamic characteristics of a	ANISOTROPIC PLATES Buckling behavior of long symmetrically laminated plates
[NASA-TP-3236] p 9 N92-33706	transport-type airfoil in a simulated heavy rain	subjected to combined loadings
AIRCRAFT NOISE	environment (NASA-TP-3184] p.8 N92-31532	[NASA-TP-3195] p 22 N92-25160
Fourth International Symposium on Long-Range Sound	AIRFRAMES	ANNUAL VARIATIONS
Propagation	Computational Structures Technology for Airframes and	Atlas of the Earth's radiation budget as measured by
[NASA-CP-3101] p 44 N91-16682	Propulsion Systems	Nimbus-7: May 1979 to May 1980
Aeroacoustics of flight vehicles: Theory and practice.	[NASA-CP-3142] p 31 N92-25911	[NASA-RP-1263] p 35 N91-24720
Volume 1: Noise sources	AIRLINE OPERATIONS	ANNULAR FLOW
[NASA-RP-1258-VOL-1] p 45 N92-10598 Annoyance caused by advanced turboprop aircraft	Evaluation of cloud detection instruments and	Three-component laser anemometer measurement systems
typover noise: Comparison of different propeller	performance of laminar-flow leading-edge test articles	[NASA-TP-3080] p.5 N91-19057
configurations	during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p 11 N91-24199	Laser anemometer measurements and computations in
[NASA-TP-3104] p 45 N92-11758	ALBEDO	an annular cascade of high turning core turbine vanes
Annoyance caused by aircraft en route noise	User's guide: Nimbus-7 Earth radiation budget	[NASA-TP-3252] p.8 N92-29980
[NASA-TP-3165] p 45 N92-20479	narrow-field-of-view products. Scene radiance tape	ANOMALIES
Fourth Aircraft Interior Noise Workshop	products, sorting into angular bins products, and maximum	J-85 jet engine noise measured in the ONERA S1 wind
[NASA-CP-10103] p 45 N92-32948	likelihood cloud estimation products	tunnel and extrapolated to far field
AIRCRAFT PERFORMANCE Joint University Program for Air Transportation	(NASA-RP-1246) p 34 N91-13043	(NASA-TP-3053) p 45 N91-19823
Research, 1989-1990	ALGAF. Controlled Ecological Life Support Systems: Natural and	ANTARCTIC REGIONS
[NASA-CP-3095] p 1 N91-19024	Artificial Ecosystems	SAM 2 measurements of the polar stratospheric aerosol.
Airborne Wind Shear Detection and Warning Systems:	[NASA-CP-10040] p 40 N91-24744	Volume 9: October 1982 - April 1983 (NASA-RP-1244) p 33 N91-18505
Third Combined Manufacturers' and Technologists'	ALGORITHMS	West Antarctic Ice Sheet Initiative. Volume 1: Science
Conference, part 1	NASA Computational Fluid Dynamics Conference.	and Implementation Plan
		and implementation in tall
[NAS, CP-10060-PT 1] p 9 N91-24166	Volume 2: Sessions 7-12	INASA-CP-3115-VOI-11 p 32 N91-20541
Control integration concept for hypersonic cruise-turn	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868	[NASA-CP-3115-VOL-1] p 32 N91-20541 West Antarctic Ice Sheet Initiative Volume 2: Discipline
Control integration concept for hypersonic cruise-turn maneuvers	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 User's guide: Nimbus-7 Earth radiation budget	[NASA-CP-3115-VOL-1] p 32 N91-20541 West Antarctic Ice Sheet Initiative, Volume 2: Discipline Reviews
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape	West Antarctic Ice Sheet Initiative, Volume 2: Discipline
Control integration concept for hypersonic cruise-turn maneuvers	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum	West Antarctic Ice Sheet Initiative, Volume 2: Discipline Reviews
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p.13 N92-20195 The 1991 International Conference on Aging Aircraft and	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products	West Antarctic Ice Sheet Initiative, Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p.34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone attas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENHA DESIGN On-orbit structural dynamic performance of a 15-meter
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new fabrication method for precision antenna
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new flabrication method for precision antenna reflectors for space flight and ground test
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new flabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p.3 N92-17984 The development of the NASA aviation safety reporting	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new flabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 John University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the NASA aviation safety reporting system	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p **0 N91-70436	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3088] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 4 N91-25624 A companson of airborne wake vortex detection	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185 ANTHROPOMETRY Responsas of women to orthostatic and exercise stresses
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p.3 N92-17984 The development of the NASA aviation safety reporting system [NASA-RP-1114] p.10 N91-70436 AIRCRAFT STABILITY	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p.37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p **0 N91-70436	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A compansion of airborne wake vortex detection measuraments with values predicted from potential theory	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p.3 N92-17984 The development of the NASA aviation safety reporting system [NASA-RP-1114] p.10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(2751] p.3 N92-28679	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3 N92-17984 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7937(2751)] p. 3 N92-28679 AIRCRAFT STRUCTURES	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENHA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3320] p 36 N°2-33482 APOLLO PROJECT
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Johnt University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A comparison of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone attas: August - December 1990 [NASA-IP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p.37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p.36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3 N92-17984 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p. 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p. 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p. 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p. 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p. 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p. 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p. 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p. 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p. 16 N92-11039 A generalized method for multiple robotic nianipulator	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3048] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 Nº2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3190] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3 N92-17984 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering: A continuing bibliography with indexes (suppliement 275) INASA-SP-7037(275)] p. 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p. 9 N91-13751	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A compansion of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS)
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Johnt University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Computational Structures Technology for Airtrames and	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding [NASA-TP-3183] p 24 N92-11218	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENHA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3 N92-17984 The development of the iNASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p. 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p. 29 N91-13751 Computational Structures Technology for Airframes and Propulsion Systems	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p.34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p.4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p.26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3083] p.51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p.51 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p.10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p.16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding [NASA-TP-3183] p.24 N92-11218 Computational Fluid Dynamics numerical methods	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p.32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p.35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p.16 N91-17114 A new flabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p.37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a superceil storm [NASA-TP-3230] p.36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p.52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS)
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Johnt University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Computational Structures Technology for Airtrames and	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A compansion of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3183] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3048] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 Nº2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13. N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness (NASA-CP-3160) p. 31. N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3190] p. 9. N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3. N92-17984 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 40. N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(2751] p. 3. N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p. 31. N92-25911	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p.34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p.4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p.26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3083] p.51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p.51 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p.10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p.16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding [NASA-TP-3183] p.24 N92-11218 Computational Fluid Dynamics numerical methods	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Gwid*ance, navigation, and control subsystem equipment
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13. N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9. N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p.3. N92-17984 The development of the iNASA aviation safety reporting system [NASA-RP-1114] p. 10. N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p.3. N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p. 29. N91-13751 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p. 31. N92-25911 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A comparison of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding [NASA-TP-3183] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-10078] p 12 N92-25808	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Johnt University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p +0 N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 The 1991 international Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT TIRES	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic inanipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-10078] p 12 N92-25808 Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new flabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guidance, navigation, and control subsystem equipment selection aligorithm using expert system methods [NASA-TP-3082] p 42 N91-25624
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13. N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9. N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3. N92-17984 The development of the iNASA aviation safety reporting system [NASA-RP-1114] p. 10. N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p. 3. N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p. 29. N91-13751 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p. 21. N92-25911 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT TIRES Static foolprint local forces, areas, and aspect ratios	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-124] p 16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding [NASA-TP-3183] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-1078] p 12 N92-25808 Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589 The effects of video compression on acceptability of	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3048] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 Control Center Technology Conference Proceedings
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13. N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9. N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3. N92-17984 The development of the inASA aviation safety reporting system [NASA-RP-1114] p. 10. N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-RP-1114] p. 3. N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p. 29. N91-13751 Computational Structures Technology for Airtrames and Propulsion Systems [NASA-CP-3142] p. 31. N92-25911 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT TIRES Static footprint local forces, areas, and aspect ratios for three type 7 arcraft tires Static footprint local forces, areas.	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A compansion of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3183] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-10078] p 12 N92-25808 Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589 The effects of video compression on acceptability of images for monitoring life sciences experiments	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3048] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 Nº2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 Control Center Technology Conference Proceedings
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the iNASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-P-1239] p 29 N91-13751 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 The 1991 international Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3140] p 31 N92-30106 AIRCRAFT TIRES Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2983] p 10 N91-17014	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A compansion of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic inanipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-10078] p 12 N92-25808 Experimental validation of clock synichronization algorithms [NASA-TP-3209] p 42 N92-27589 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3048] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 Control Center Technology Conference Proceedings [NASA-CP-10081] p 14 N92-12010 Destination-directed, packet-switching architecture for
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p. 13. N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3190] p. N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p. 3. N92-17984 The development of the INASA aviation safety reporting system [NASA-RP-1114] p. 10. N91-70436 AIRCRAFT STABILITY Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p. 3. N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p. N91-13751 Computational Structures Technology for Airtrames and Propulsion Systems [NASA-CP-3160] p. 31. N92-25911 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p. 31. N92-30106 AIRCRAFT TIRES Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2983] p. 10. N91-17014 Computational methods for frictionless contact with	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-10724] p 16 N92-11039 A generalized method for multiple robotic nianipulator programming applied to vertical-up welding [NASA-TP-3183] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithms [NASA-TP-3209] p 12 N92-25808 Experimental validation of clock cynchronization algorithms [NASA-TP-3209] p 42 N92-27589 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3209] p 48 N92-33933 ALLOYS	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-320] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-TP-3040] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guid-ince, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 Control Center Technology Conference Proceedings [NASA-CP-1081] p 14 N92-12010 Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications
Control integration concept for hypersonic cruise-turn maneuvers [NASA-TP-3136] p 13 N92-20195 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT RELIABILITY The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 AIRCRAFT SAFETY Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Joint University Program for Air Transportation Research, 1990-1991 [NASA-CP-3131] p 3 N92-17984 The development of the iNASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 AIRCRAFT STABILITY Aeronautical engineering. A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 AIRCRAFT STRUCTURES Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-P-1239] p 29 N91-13751 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 The 1991 international Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3140] p 31 N92-30106 AIRCRAFT TIRES Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2983] p 10 N91-17014	Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 User's guide: Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations [NASA-TP-3050] p 4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] p 26 N91-18381 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 A compansion of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 Space Network Control Conference on Resource Allocation Concepts and Approaches [NASA-CP-3124] p 16 N92-11039 A generalized method for multiple robotic inanipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-10078] p 12 N92-25808 Experimental validation of clock synichronization algorithms [NASA-TP-3209] p 42 N92-27589 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933	West Antarctic Ice Sheet Initiative. Volume 2: Discipline Reviews [NASA-CP-3115-VOL-2] p 32 N91-26573 Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 ANTENNA DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3048] p 17 N91-21185 ANTHROPOMETRY Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 ANTICYCLONES Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N°2-33482 APOLLO PROJECT NASA engineers and the age of Apollo [NASA-SP-4104] p 52 N92-28344 APPLICATIONS PROGRAMS (COMPUTERS) A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p 28 N92-10195 ARCHITECTURE (COMPUTERS) Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624 Control Center Technology Conference Proceedings [NASA-CP-10081] p 14 N92-12010 Destination-directed, packet-switching architecture for

ARCTIC REGIONS		The atmospheric effects of stratospheric aircraft. A	AUTONOMY
SAM 2 measurements of the polar	stratospheric aerosol	current consensus	Automating a spacecraft electrical power system using
Volume 9. October 1982 - April 1983		[NASA-RP-1251] p.33 N91-16467	expert systems
{NASA-RP-1244}	p 33 N91-18505	First LDEF Post-Retrieval Symposium abstracts (NASA-CP-10072) p.52 N91-24972	[NASA-TP-3161] p 20 N92-12052 AVIATION METEOROLOGY
AREA Static footprint local forces, area	s and aspect ratios	The atmospheric effects of stratospheric aircraft. A first	The 1991 International Aerospace and Ground
for three type 7 aircraft tires	-, -, -, -, -, -, -, -, -, -, -, -, -, -	program report	Conference on Lightning and Static Electricity, volume 1
[NASA-TP-2983]	p 10 N91-17014	(NASA-RP-1272) p 33 N92-19121	(NASA-CP-3106-VOL-1) p.35 N91 32599
ARROW WINGS		Sixteenth International Laser Radar Conference, part	AVIONICS
Spair reduction effects on the flut arrow-wing supersonic transport con		[NASA-CP-3158-PT-1] p.28 N92-29228	Aviation Safety/Automation Program Conference {NASA CP-3090} p.9 N91 10936
[NASA-TP-3077]	p 11 N91-21127	High-Speed Research, Sonic Boom, volume 1	Space Transportation Avionics Technology Symposium
ARTIFICIAL GRAVITY		[NASA-CP-3172] p.11 N92-33874	Volume 2 Conference Proceedings
Benefits from synergies and advar	nced technologies for	ATMOSPHERIC MODELS The atmospheric effects of stratospheric aircraft A	[NASA-CP-3081-VOL-2] p.11 N91 17020
an advanced-technology space state		current consensus	NASA Formal Methods Workshop, 1990
[NASA-TP-3067]	p 14 N91-20177	[NASA-RP-1251] p 33 N91-16467	[NASA-CP-10052] p.42 N91-17559 Joint University Program for Air Transportation
The 1991 Goddard Conference or	n Space Applications	NASA/MSFC FY90 Global Scale Atmospheric	Research, 1989 1990
of Artificial Intelligence	· Space Applications	Processes Research Program Review [NASA-CP-3093] p.35 N91-16500	[NASA-CP-3095] p.1 N91 19024
[NASA-CP-3110]	p 43 N91-22769	Volcanism-Climate interactions	AXES (REFERENCE LINES)
Technology 2000, volume 1		[NASA-CP-10062] p.34 N91-21641	A nonlinear estimator for reconstructing the angular
[NASA-CP-3109-VOL-1]	p 52 N91-23021	Inertial oscillation of a vertical rotating draft with	velocity of a spacecraft without rate gyros [NASA TP-3178] p.24 N92 13343
Technology 2001 The Second N		application to a supercell storm. Video supplement to	AXIAL COMPRESSION LOADS
Transfer Conference and Exposition [NASA-CP-3136-VOL-1]	p 52 N92-22423	NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246	Compression behavior of graphite thermoplastic and
The 1992 Goddard Conference of	•	ATMOSPHERIC MOISTURE	graphite-epoxy panels with circular holes or impact
of Artificial Intelligence	opace oppositions	The role of water vapor in climate. A strategic research	damage (NASA TP-3071) p.21 N91-18215
[NASA-CP-3141]	p 43 N92-23356	plan for the proposed GEWEX water vapor project	AXIAL LOADS
The Feder-t Conterence on Ir	telligent Processing	(GVaP)	Plate and butt-weld stresses beyond elastic limit.
Equipment		[NASA-CP-3120] p 35 N91-25556 ATMOSPHERIC PHYSICS	material and structural modeling
[NASA-CP-3138]	p 52 N92-24987	NASA/MSEC FY90 Global Scale Atmospheric	[NASA TP:3075] p.29 N91:16413
ASPECT RATIO Static footprint local forces area	s and aspect rabbe	Processes Research Program Review	_
for three type 7 aircraft tires	s. and aspect railes	(NASA-CP-3093) p 35 N91-16500	В
NASA-TP-2983	p 10 N91-17014	NASA/MSFC FY91 Global Scale Atmospheric	
ASTRONAUT PERFORMANCE		Processes Research Program Review [NASA-CP-3126] p 35 N91-32660	BACKSCATTERING
Reliability of a Shuttle reaction time		inertial oscillation of a vertical rotating draft with	Sixteenth International Laser Radar Conference, part
(NASA 7P-3176)	p 40 N92-16562	application to a supercell storm	INASA-CP 3158-PT-1 : p. 28 N92-29229
ASTRONAUTICS		NASA-TP-3230] p 36 N92 33482	BANDPASS FILTERS
Aeronautical engineering: A continuindexes (supplement 278)	onig bibliography with	ATMOSPHERIC RADIATION	A scheme for bandpass filtering magnetometer
NASA-SP-7037(278)	p.3 N92-28677	Limb-darkening functions as derived from along track	measurements to reconstruct tethered satellite skiprope
Aeronautical engineering. A contin-		operation of the ERBE scanning radiometers for August 1985	motion : NASA TP 3123 : ::::::::::::::::::::::::::::::::
indexes (supplement 275)	•	NASA-RP-1243) p.34 N91-14683	BANDWIDTH
NASA SP-7037(275 ₁)	p.3 N92-28679	Mission description and in-flight operations of ERBE	The effect of bandwidth on tolerotics system
ASTRONAUTS		instruments on ERBS and NOAA 9 spacecraft, November	performance
Nutritional Requirements for Spa-	ce Station Freedom	1984 - January 1986	NASA 1P 3152) 4/28 NV1 30540
Crews : NASA CRIS146 -	p 40 N92-25961	NASA-RP.1256] p.32 N92 10208 ATMOSPHERIC SOUNDING	The effects of video compression on acceptately is
ASTRONOMICAL MODELS	p 40 - 112 E 550 -	NASA/MSFC FY90 Global Scale Atmospheric	mages for monitoring its sciences experiments. (NASA TRISSS): p 16 - NA, 33993.
myrstellar Cust, Contributed Pape	ırs	Processes Research Program Review	BARYONS
:NASA-OP 2036;	p.48 N91-14807	(NASA-CP-3093)	improvements in computational accidacy. J BBV*C*DN
ASTRONOMICAL SPECTROSCOPY		ATMOSPHERIC TURBULENCE	ra transport codes
The Compton Descriptory Science		Development of an adaptive failure didection and intentification system for detecting appoint control element.	PNASA TO BOUG p.64 Mgt (2007) BASE PRESSURE
MASA OP POUT ASTRONOMY	5 49 N92 21974	favores	Simulation of mangas ethicis on purks per fish but os
Planned and Interacting (3a)	aries international	[NASA TP 3051] p.12 N91 25151	for aemassist flight experiment vehicle and imparison
Astronomical Linear Cathogusem No.	124	High-Speed Research, Sunic Boom, volume 1	with prediction
NASA OR 3099	इ. ४५ - १५१ । १५१५	: NASA CP 3172; 6 11 192/3 (874)	NASA TRIBET
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ATMOSPHERIC CHEMISTRY		5/45A CP 3116) 6/44 N/41 25/195	NASA TRIPIATO (PAG NOVI 1994)
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influence of mass moment of inertia on normal modes	Large space structures and systems in the space station	Aerospace medicine and biology A continuing
of preloaded solar array mast	era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191	bibliography with indexes (supplement 341)
[NASA-TP-3273] p 31 N92-33476	Aerospace medicine and biology A continuing	[NASA-SP-7011(341)] p 37 N91-10594
IBLIOGRAPHIES	bibliography with indexes (supplement 352)	Aerospace medicine and biology A continuing
Aeronautical engineering: A continuing bibliography with	[NASA-SP-7011(352)] p 38 N91-28729	bibliography with indexes (supplement 342)
indexes (supplement 256) [NASA-SP-7037(256)] p 1 N91-10002	NASA patent abstracts bibliography. A continuing	[NASA-SP-7011(342)] p 37 N91-13063
Aerospace medicine and biology A continuing	bibliography Section 2 Indexes (supplement 39)	Aerospace medicine and biology A continuing bibliography with indexes (supplement 343)
hibliography with indexes (supplement 341)	[NASA-SP-7039(39)-SECT-2] p 48 N91-29088	(NASA-SP-7011(343)) p.37 N91-14711
INASA-SP-7011(341)] p 37 N91-10594	Aeronautical engineering: A continuing bibliography with	Aerospace medicine and biology A continuing
Aeronautical engineering: A continuing bibliography with	indexes (supplement 268)	bibliography with indexes (supplement 344)
indexes (supplement 257)	[NASA-SP-7037(268)] p.2 N91-30077	(NASA-SP-7011(344)) p 37 N91 14712
INACA-SP.7037(257)) D 1 N91-12009	Earth observations and global change decision making	Aerospace medicine and biology. A cumulative index
Aerospace medicine and biology: A continuing	A special bibliography, 1991	to a continuing bibliography (supplement 345)
bibliography with indexes (supplement 342) (NASA.SP.7011/342)1 p. 37 N91-13063	[NASA-SP-7092] p 32 N91-30588	(NASA-SP-7011(345)) p 37 N91-16547
(NASA-SP-7011(342)) p 37 N91-13063 NASA scientific and technical publications: A catalog	Aerospace medicine and biology A continuing	Aerospace medicine and biology A continuing
of special publications, reference publications, conference	bibliography with indexes (supplement J53) INASA-SP-7011(353)) p 38 N91-31760	bibliography with indexes (supplement 346) INASA-SP-7011(3461) p.37 N91-23700
publications, and technical papers, 1989	[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical engineering: A continuing bibliography with	[NASA-SP-7011(346)] p.37 N91-23/00 Aerospace medicine and biology A continuing
INASA.SP.7063(04)] p.47 N91-13374	indexes (supplement 267)	bibliography with indexes (supplement 347)
Aeronautical engineering: A continuing bibliography with	[NASA-SP-7037(267)] p 2 N92-10001	[NASA-SP-7011(347)] p 37 N91-23701
indexes (supplement 258)	Aeronautical engineering. A continuing bibliography with	Aerospace medicine and biology A continuing
[NASA-SP-7037(258)] p 1 N91-13399	indexes (supplement 270)	bibliography with indexes (supplement 348)
Aerospace medicine and biology: A continuing	[NASA-SP-7037(270)] p.2 N92-10973	(NASA-SP-7011(348)) p 37 N91-23702
bibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-14711	Aeronautical engineering: A continuing bibliography with	Aerospace medicine and biology A continuing
Aerospace medicine and biology: A continuing	indexes (supplement 269)	bibliography with indexes (supplement 349) (NASA-SP-7011(349)1 p.37 N91-24731
bibliography with indexes (supplement 344)	[NASA-SP-7037(269)] p 2 N92-10974	[NASA-SP-7011(349)] p.37 N91-247.33 Aerospace medicine and biology A continuing
(NASA-SP-7011(344)) p 37 N91-14712	Aerospace medicine and biology: A continuing	bibliography with indexes (supplement 350)
Aeronautical engineering. A continuing bibliography with	bibliography with indexes (supplement 354) (NASA-SP-7011(354)) p 38 N92-12404	[NASA-SP-7011(350)] p 38 N91-25600
indexes (supplement 260)		Aerospace medicine and biology A continuing
[NASA-SP-7037(260)] p 1 N91-15978	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 355)	bibliography with indexes (supplement 351)
Aeronautical engineering: A continuing bibliography with	[NASA-SP-7011(355)] p 38 N92-12412	[NASA-SP-7011(351)] p 38 N91-27756
indexes (supplement 259) [NASA-SP-7037(259)] p.1 N91-15979	Aeronautical engineering: A continuing bibliography with	Aerospace medicine and biology A continuing
[NASA-SP-7037(259)] p.1 N91-15979 Aerospace medicine and biology: A cumulative index	indexes (supplement 271)	bibliography with indexes (supplement 352) (NASA-SP-7011(352)] p.38 N91-28729
to a continuing bibliography (supplement 345)	INASA-SP-7037(271)] p.2 N92-14967	[NASA-SP-7011(352)] p 38 N91-28729 Aerospace medicine and biology A continuing
(NASA-SP-7011(345)) p 37 N91-1654/	Aerospace medicine and biology: A continuing	bibliography with indexes (supplement 353)
NASA patent abstracts bibliography: A continuing	bibliography with indexes (supplement 356) INASA.SP.7011(356)} p 38 N92-15538	[NASA-SP-7011(353)] p 38 N91-31760
bibliography. Section 1: Abstracts (supplement 38)		Aerospace medicine and biology A continuing
[NASA-SP-7039(38)-SECT-1] p 47 N91-17833	Aerospace medicine and biology A continuing bibliography with indexes (supplement 357)	bibliography with indexes (supplement 354)
NASA patent abstracts bibliography: A continuing	(NASA-SP-7011(357)) p 39 N92-21714	(NASA-SP-7011(3541) p 38 N92-12404
bibliography. Section 2: Indexes (supplement 38) {NASA-SP-7039(38}-SECT-2} p.47 N91-17834	Aerospace medicine and biology: A continuing	Aerospace medicine and biology A continuing
Large space structures and systems in the space station	bibliography with indexes (supplement 359)	bibliography with indexes (supplement 355) INASA-SP-7011(355)1 p 38 N92-12412
era: A bibliography with indexes	[NASA-SP-7011(359)] p 39 N92-21715	[NASA-SP-7011(355)] p 38 N92-12412 Aerospace medicine and biology A continuing
(NASA-SP-7085(01)) D 17 N91-18199	Aeronautical engineering: A continuing bibliography with	bibliography with indexes (supplement 356)
Aeronautical engineering: A cumulative index to a	indexes (supplement 273) INASA-SP-7037(273) p.3 N92-21729	(NASA-SP-7011(356)) p 38 N92 15538
continuing bibliography (supplement 261)	[NASA-SP-7037(273)] p.3 N92-21729 Aeronautical engineering. A continuing bibliography with	Reliability of a Shuttle reaction timer
(NASA-SP-7037(261)) p.1 N91-23073 Aeronautical engineering: A continuing bibliography with	indexes (supplement 272)	[NASA-TP-3176] p 40 N92-16562
		Aerospace medicine and biology A continuing
indexes (supplement 262)	[NASA-SP-7037(272)] p.3 N92-21844	
indexes (supplement 262) (NASA-SP-7037(262)) p 1 N91-23074	Aerospace medicine and biology: A cumulative index	bibliography with indexes (supplement 357)
(NASA-SP-7037(262)) p 1 N91-23074	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358)	[NASA-SP-7011(357)] p 39 N92-21714
[NASA-SP-7037(262)] p.1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358)) p 39 N92-22026	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p. 39 N92-22026 Large space structures and systems in the space station	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) (NASA-SP-7011(359)) p 39 N92-21715
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] Large space structures and systems in the space station era: A bibliography with indexes (supplement 03)	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 Nerospace medicine and biology: A continuing bibliography with indexes (supplement 347)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) NASA-SP-7011(358) p. 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) (NASA-SP-7085(031) p. 18 N92-22317	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358)
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) INASA-SP-7011(347)] p 37 N91-23701	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p. 39, N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] NASA-Spatent abstracts bibliography: A continuing	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] NASA-SP-7085(03)] P 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography: Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] P 48 N92-22508	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] NASA-SP-7085(03)] NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40)	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362)
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes, 1989-1991	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(368)] p 39 N92-27068
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] INASA-SP-7011(358)] Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] INASA-SP-7085(03)] INASA-SP-7095(03)] INASA-SP-7039(40)-SECT-11	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361)
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7031(265)] p 2 N91-24095	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p. 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p. 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p. 47 N92-22665 Aerospace medicine and biology: A continuing	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p. 39. N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18. N92-22317 NASA patent abstracts bibliography: A continuing bibliography. Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p. 48. N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p. 47. N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362)	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p. 39. N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18. N92-22317 NASA patent abstracts bibliography: A continuing bibliography. Section 1: Abstracts (supplement 40) [NASA-SP-7039[40]-SECT-1] p. 48. N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p. 47. N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p. 39. N92-27068	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(361)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363)
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p. 39. N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18. N92-22317 NASA- patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p. 48. N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p. 47. N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p. 39. N92-27068 Management: A bibliography for NASA managers.	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7091(40)-SECT-1] p 48 N92-22508 Continuous improvement: A bibliography with indexes 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p 47 N92-27080 NASA patent abstracts bibliography A continuing	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 bibliography with indexes (supplement 361) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(363)] p 39 N92-30987 RICHAMICS
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p. 39. N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18. N92-22317 NASA-patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p. 48. N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p. 47. N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p. 39. N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p. 47. N92-27080 NASA-SP-7500(26)] p. 47. N92-27080 D. NASA-SP-7500(26)] p. 47. N92-2708	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(363)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 BIODYNAMICS Correlation and prediction of dynamic human isolated
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) P 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] P 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7099(40)-SECT-1] P 48 N92-22508 Continuous improvement. A bibliography with indexes: 1989-1991 [NASA-SP-707] P 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] P 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] P 47 N92-27080 NASA patent abstracts bibliography: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] P 48 N92-27081	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(2644]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358) p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7091(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 [NASA-SP-7011(362)] p 47 N92-27060 NASA patent abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-70815(03)] p 18 N92-22317 NASA-Sp-7085(03)] p 18 N92-22317 NASA-Spatent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p 47 N92-27080 NASA patent abstracts bibliography: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 46)	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement: A bibliography with indexes: 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p 47 N92-27080 NASA patent abstracts bibliography: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361]] p 39 N92-27433	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341)
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7500(25)] p 46 N91-24936	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358) p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7091(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27080 [NASA-SP-7011(362)] p 47 N92-27080 [NASA-SP-7001(26)] p 47 N92-27080 [NASA-SP-7001(26)] p 47 N92-27080 [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography section 2 Indexes (supplement 40) [NASA-SP-7011(361)] p 39 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineening: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineening: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineening: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7500(25)] p 46 N91-24936 NASA-SP-7500(25)] p 46 N91-24936 NASA-SP-7500(25)]	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7091] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7001(26)] p 47 N92-27080 NASA-SP-7001(26)] p 47 N92-27080 NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(3611] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(2777)] p 3 N92-27929	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A comulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] Aerospace medicine and biology A continuing
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7013(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7011(349)] p 37 N91-2436 NASA-SP-7016(349)] p 37 N91-2436 NASA-SP-7016(349) p 37 N91-2436 NASA-SP-7016(349)] p 37 N91-2436	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p 47 N92-27080 NASA patent abstracts bibliography: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7031(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(2771) p 3 N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement) 277) [NASA-SP-7037(2771) p 3 N92-27929 Aeronautical engineering: A continuing bibliography with	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342)
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[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7031(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7500(25)] p 46 N91-24936 NASA scientific and technical publications: A catalog of special publications, reference publications, conference publications, and technical papers. 1997-1990 [NASA-SP-7063(05)] p 47 N91-24939 International exploration of Mars. A special bibliography [NASA-SP-7091] p 49 N91-24965	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p 47 N92-27080 NASA patent abstracts bibliography: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(277)] p 3 N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(277)] p 3 N92-28677 Aeronautical engineering A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(342)] p 37 N91-13063 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-14711
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[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7050(25)] p 46 N91-24936 NASA-SP-7050(25)] p 47 N91-24939 International exploration of Mars: A special bibliography [NASA-SP-7063(05)] p 47 N91-24939 International exploration of Mars: A special bibliography [NASA-SP-7011(350)] p 49 N91-24965 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 49 N91-24965 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 38 N91-25600 Aeronautical engineering: A continuing bibliography with indexes (supplement 350)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-70815(03)] p 18 N92-22317 NASA-Sp-7085(03)] p 18 N92-22317 NASA-space abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-7031] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers (NASA-SP-7500(26)] p 47 N92-27080 NASA-SP-7011(362)] p 39 N92-27080 NASA-SP-7050(26) p 47 N92-27080 [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography. Section 2 Indexes (supplement 40) (NASA-SP-7011(361)] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(277)] p 3 N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-2929 [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28679 [NASA-SP-7037(275)] p 3 N92-28679 Dibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 NASA-SP-7011(363)] p 39 N92-30887 NASA-SP-7011(363)] p 39 N92-30887 NASA-SP-7011(363)] p 39 N92-30897 NASA-SP-7011(363)] p 3	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(361)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(342)] p 37 N91-13063 [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14712
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7030(25)] p 46 N91-24936 of special publications, reference publications: A catalog of special publications, reference publications: Conference publications, and technical papers. 1987-1990 [NASA-SP-7030(05)] p 47 N91-24939 [NASA-SP-7030(05)] p 47 N91-24939 [NASA-SP-7031(05)] p 49 N91-24965 Aerospace medicine and biology. A continuing bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 38 N91-25600 Aeronautical engineering: A continuing bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 38 N91-25600 Aeronautical engineering: A continuing bibliography with indexes (supplement 366) [NASA-SP-7031(266)] p 2 N91-27122	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1: Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7500(26)] p 47 N92-27080 NASA-SP-7500(26)] p 47 N92-27080 NASA-SP-7031(362)] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(277)] p 3 N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(278)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 NASA-SP-7011(363)] p 39 N92-30987 NASA-SP-7011(363)] p 39 N92-30987 NASA-SP-7011(363)] p 39 N92-30987 NASA-SP-7031(41)-SECT-2] p 48 N92-31455	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(343)] p 37 N91-13063 Aerospace medicine and biology A continuing bibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 345) [NASA-SP-7011(345)] p 37 N91-15547 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 345) [NASA-SP-7011(345)] p 37 N91-15547 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345)
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineening: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineening: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineening: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 264) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7050(25)] p 46 N91-24936 NASA-SP-7063(05)] p 47 N91-24939 International exploration of Mars. A special bibliography [NASA-SP-7061(350)] p 49 N91-24939 International exploration of Mars. A special bibliography [NASA-SP-7061(350)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 356) [NASA-SP-7011(350)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 366) [NASA-SP-7037(266)] p 2 N91-27122 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 366) [NASA-SP-7037(266)] p 2 N91-27122	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-707] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7011(362)] p 47 N92-27080 NASA-SP-7001(26)] p 47 N92-27080 NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography Section 2 Indexes (supplement 40) [NASA-SP-7031(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361]] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(277)] p 3 N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7031(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 278) [NASA-SP-7031(275)] p 3 N92-30987 NASA patent abstracts bibliography: A continuing bibliography with indexes (supplement 41) [NASA-SP-7031(275)] p 48 N92-31455 Aeronautical engineering A continuing bibliography with	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A countinuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(343)] p 37 N91-13063 Aerospace medicine and biology A continuing bibliography with indexes (supplement 343) [NASA-SP-7011(344)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A cumulative index to a continuing bibliography with indexes (supplement 345) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A cumulative index to a continuing bibliography with indexes (supplement 345) [NASA-SP-7011(344)] p 37 N91-14712
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7011(349)] p 37 N91-2436 NASA-SP-7011(359)] p 46 N91-2436 NASA-SP-7050(25)] p 47 N91-24939 International exploration of Mars: A special bibliography [NASA-SP-7091] p 49 N91-24999 International exploration of Mars: A special bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7037(266)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7037(266)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7037(266)] p 2 N91-27122 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358)] p 39 N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p 48 N92-22508 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Management: A bibliography for NASA managers [NASA-SP-7050(26)] p 39 N92-27080 NASA-SP-7050(26)] p 39 N92-27080 NASA-SP-7050(26)] p 47 N92-27081 Aerospace medicine and biology: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p 48 N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(277)] p 3 N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p 3 N92-28677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p 3 N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 280)	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIDDYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(342)] p 37 N91-13069 Aerospace medicine and biology A continuing bibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-13069 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345) [NASA-SP-7011(345)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345) [NASA-SP-7011(346)] p 37 N91-16547 Aerospace medicine and biology A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-16547
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264]] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7010(35)] p 46 N91-24936 of special publications, reference publications: A catalog of special publications, reference publications: A catalog of special publications, reference publications: A special bibliography [NASA-SP-7063(05)] p 47 N91-24939 [NASA-SP-7061(355)] p 49 N91-24939 [NASA-SP-7011(350)] p 39 N91-25600 Aeronautical engineering: A continuing bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 2 N91-27122 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 351) [NASA-SP-7011(351)] p 38 N91-27756	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) p. 39. N92-22026 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18. N92-22317 NASA patent abstracts bibliography: A continuing bibliography Section 1- Abstracts (supplement 40) [NASA-SP-7039(40)-SECT-1] p. 48. N92-22508 Continuous improvement. A bibliography with indexes. 1989-1991 [NASA-SP-709] p. 47. N92-22665 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p. 39. N92-27068 Management: A bibliography for NASA managers [NASA-SP-7011(362)] p. 47. N92-27080 NASA patent abstracts bibliography: A continuing bibliography. Section 2 Indexes (supplement 40) [NASA-SP-7039(40)-SECT-2] p. 48. N92-27081 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p. 39. N92-27433 Aeronautical engineering: A continuing bibliography with indexes (supplement 277) [NASA-SP-7037(277)] p. 3. N92-27929 Aeronautical engineering: A continuing bibliography with indexes (supplement 278) [NASA-SP-7037(278)] p. 3. N92-26677 Aeronautical engineering: A continuing bibliography with indexes (supplement 275) [NASA-SP-7037(275)] p. 3. N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7031(2755)] p. 3. N92-28679 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 275) [NASA-SP-7031(2755)] p. 3. N92-30987 NASA patent abstracts bibliography. A continuing bibliography with indexes (supplement 363) [NASA-SP-7031(363)] p. 39. N92-30987 NASA patent abstracts bibliography. A continuing bibliography with indexes (supplement 280) [NASA-SP-7031(363)] p. 39. N92-31455 Aeronautical engineering: A continuing bibliography with indexes (supplement 280) [NASA-SP-7031(280)] p. 39. N92-31456 BINARY ALLOYS	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 359) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 BIODYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(342)] p 37 N91-13063 Dibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(343)] p 37 N91-14712 Aerospace medicine and biology A cumulative index to a continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-13700 Aerospace medicine and biology A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-13700
[NASA-SP-7037(262)] p 1 N91-23074 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 347) [NASA-SP-7011(347)] p 37 N91-23701 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 348) [NASA-SP-7011(348)] p 37 N91-23702 Aeronautical engineering: A continuing bibliography with indexes (supplement 265) [NASA-SP-7037(265)] p 2 N91-24095 Aeronautical engineering: A continuing bibliography with indexes (supplement 263) [NASA-SP-7037(263)] p 2 N91-24096 Aeronautical engineering: A continuing bibliography with indexes (supplement 264) [NASA-SP-7037(264)] p 2 N91-24097 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731 Management: A bibliography for NASA managers [NASA-SP-7011(349)] p 37 N91-2436 NASA-SP-7011(359)] p 46 N91-2436 NASA-SP-7050(25)] p 47 N91-24939 International exploration of Mars: A special bibliography [NASA-SP-7091] p 49 N91-24999 International exploration of Mars: A special bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7037(266)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7037(266)] p 38 N91-25600 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350) [NASA-SP-7037(266)] p 2 N91-27122 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350)	Aerospace medicine and biology: A cumulative index to a continuing bibliography (supplement 358) INASA-SP-7011(358) INASA-SP-7011(358) INASA-SP-7011(358) INASA-SP-7085(03) INASA-SP-7085(03) INASA-SP-7085(03) INASA-SP-7085(03) INASA-SP-7085(03) INASA-SP-7085(03) INASA-SP-7039(40)-SECT-1 INASA-SP-7039(40)-SECT-1 INASA-SP-7039(40)-SECT-1 INASA-SP-7039(40)-SECT-1 INASA-SP-7039(40)-SECT-1 INASA-SP-7039(40)-SECT-1 INASA-SP-7097 INASA-SP-7011(362) INASA-SP-7011(362) INASA-SP-7011(362) INASA-SP-7011(362) INASA-SP-7011(362) INASA-SP-703(40)-SECT-1 INASA-SP-703(40)-SECT-2 INASA-SP-703(40)-SECT-2 INASA-SP-703(40)-SECT-2 INASA-SP-703(40)-SECT-2 INASA-SP-703(40)-SECT-2 INASA-SP-703(40)-SECT-2 INASA-SP-7037(277) INASA-SP-7037(277) INASA-SP-7037(277) INASA-SP-7037(277) INASA-SP-7037(277) INASA-SP-7037(278) INASA-SP-7037(278) INASA-SP-7037(275) INASA-SP-7037(275) INASA-SP-703(363)	[NASA-SP-7011(357)] p 39 N92-21714 Aerospace medicine and biology A continuing bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology A cumulative index to a continuing bibliography (supplement 358) [NASA-SP-7011(358)] p 39 N92-22026 Aerospace medicine and biology A continuing bibliography with indexes (supplement 362) [NASA-SP-7011(362)] p 39 N92-27068 Aerospace medicine and biology A continuing bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30967 BIDDYNAMICS Correlation and prediction of dynamic human isolated joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682 BIOLOGICAL EFFECTS Aerospace medicine and biology A continuing bibliography with indexes (supplement 341) [NASA-SP-7011(341)] p 37 N91-10594 Aerospace medicine and biology A continuing bibliography with indexes (supplement 342) [NASA-SP-7011(342)] p 37 N91-13069 Aerospace medicine and biology A continuing bibliography with indexes (supplement 343) [NASA-SP-7011(343)] p 37 N91-13069 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14711 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345) [NASA-SP-7011(345)] p 37 N91-14712 Aerospace medicine and biology A continuing bibliography with indexes (supplement 345) [NASA-SP-7011(346)] p 37 N91-16547 Aerospace medicine and biology A continuing bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-16547

SOBJECT INDEX		CARBON FIBERS
Aerospace medicine and biology: A continuing	Two-dimensional aerodynamic characteristics of several	BOUNDARY LAYERS
bibliography with indexes (supplement 348)	polygon-shaped cross-sectional models applicable to	Evaluation of a technique to generate artificially
[NASA-SP-7011(348)] p 37 N91-23702	helicopter fuselages	thickened boundary layers in supersonic and hypersonic
Aerospace medicine and biology: A continuing	[NASA-TP-3233] p 8 N92-30394 BOATTAILS	flows [NASA-TP-3142] p.6 N91-28136
bibliography with indexes (supplement 349) [NASA-SP-7011(349)] p 37 N91-24731	Effect of afterbody geometry on aerodynamic	[NASA-TP-3142] p.6 N91-28136 Calculation of unsteady transonic flows with mild
Aerospace medicine and biology: A continuing	characteristics of isolated nonaxisymmetric atterbodies #1	separation by a scous-massive interaction
bibliography with indexes (supplement 350)	transonic Mach numbers	[NASA-TP-3197] p 7 N92-28477
[NASA-SP-7011(350)] p 38 N91-25600	[NASA-TP-3236] p 9 N92-33706 BODY-WING CONFIGURATIONS	Validation of three-dimensional incompressible spatial
Aerospace medicine and biology: A continuing	Transonic Symposium Theory, Application and	direct numerical simulation code. A comparison with linear
bibliography with indexes (supplement 351) [NASA-SP-7011(351)] p 38 N91-27756	Experiment, volume 2	stability and parabolic stability equation theores for boundary-layer transition on a flat plate
Aerospace medicine and biology: A continuing	[NASA-CP-3020-VOL-2] p 5 N91-24132	[NASA-TP-3205] p.8 N92-30295
bibliography with indexes (supplement 352)	Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter	BRAKES (FOR ARRESTING MOTION)
(NASA-SP-7011(352)) p 38 N91-28729	[NASA-TP-3156] p 6 N92-10011	Determination of the flight hardware configuration of an
Aerospace medicine and biology A continuing	A method for designing blended wing-body	energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart
bibliography with indexes (supplement 353) {NASA-SP-7011(353)} p 38 N91-31760	configurations for low wave drag	(NASA-TP-3084) p 29 N91-21556
Cellular repair/misrepair track model	[NASA-TP-3261] p.8 N92-32480 Survey and analysis of research on supersonic	BREADBOARD MODELS
[NASA-TP-3124] p 42 N92-11685	drag-due-to-lift minimization with recommendations for	Automating a spacecraft electrical power system using
Aerospace medicine and biology: A continuing	wing design	expert systems [NASA-TP-3161] p.20 N92-12052
bibliography with indexes (supplement 354)	[NASA-TP-3202] p 9 N92-33656	BUCKLING
[NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology: A continuing	BOEING AIRCRAFT Lewis icing research tunnel test of the aerodynamic	Research in Structures, Structural Dynamics and
bibliography with indexes (supplement 355)	effects of aircraft ground deicing/anti-icing fluids	Materials, 1990
[NASA-SP-7011(355)] p 38 N92-12412	[NASA-TP-3238] p 10 N92-30395	[NASA-CP-3064] p 29 N91-10301
Aerospace medicine and biology: A continuing	BOILER PLATE	Buckling and vibration analysis of a simply supported column with a piecewise constant cross section
bibliography with indexes (supplement 356) [NASA-SP-7011(356)] p 38 N92-15538	Long-term orbital lifetime predictions [NASA-TP-3058] p. 13 N91-10092	[NASA-TP-3090] p 29 N91-20503
[NASA-SP-7011(356)] p 38 N92-15538 Aerospace medicine and biology: A continuing	BONE DEMINERALIZATION	Effect of low-speed impact damage and damage location
bibliography with indexes (supplement 357)	Workshop on Exercise Prescription for Long-Duration	on behavior of composite panels
[NASA-SP-7011(357)] p 39 N92-21714	Space Flight [NASA-CP-3051] p 36 N91-10574	(NASA-TP-3196) p 22 N92-23981
Aerospace medicine and biology: A continuing	Techniques for determination of impact forces during	Buckling behavior of long symmetrically laminated plates subjected to combined loadings
bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715	walking and running in a zero-G environment	[NASA-TP-3195] p 22 N92-25160
[NASA-SP-7011(359)] p 39 N92-21715 Aerospace medicine and biology: A cumulative index	[NASA-TP-3159] p 38 N92-17022	BYPASS RATIO
to a continuing bibliography (supplement 358)	BOOSTER ROCKET ENGINES	Installation effects of wing-mounted turbotan
[NASA-SP-7011(358)] p 39 N92-22026	Parametric trade studies on a Shuttle 2 launch system architecture	nacelle-pylons on a 1/17-scale, twin-engine, tow-wing transport model
Nutritional Requirements for Space Station Freedom	[NASA-TP-3059] p 14 N91-18180	[NASA-TP-3168] p.7 N92-19002
Crews NASA-CP-3146 p.40 N92-25961	Space Transportation Propulsion Technology	BYPASSES
Aerospace medicine and biology A continuing	Symposium. Volume 1: Executive summary	Modeling of the heat transfer in bypass transitional
bibliography with indexes (supplement 362)	[NASA-CP-3112] p 19 N91-25176	boundary-layer flows {NASA-TP-3170} p 27 N92-11299
[NASA-SP-7011(362)] p 39 N92-27068	BOUNDARIES Validation of three-dimensional incompressible spatial	[NASA-TP-3170] p 27 N92-11299
Aerospace medicine and biology. A continuing		
	direct numerical simulation code. A comparison with linear	^
bibliography with indexes (supplement 361)	stability and parabolic stability equation theories for	С
bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 N92-27433	stability and parabolic stability equation theories for boundary-layer transition on a flat plate	-
bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363)	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295	CABLES (ROPES)
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987	stability and parabolic stability equation theories for boundary-layer transition on a flat plate	-
bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280.	CABLES (ROPES) Cable compliance [NASA-TP-3216] p.24 N92-30378 CALIBRATING
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 BOUNDARY CONDITIONS	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget
bibliography with indexes (supplement 361) (NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31 N92-31280 BOUNDARY CONDITIONS Panel methods. An introduction	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products Scene radiance tape
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205]	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life [NASA-CP-3129] p 1 N92-13588	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS)	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight {NASA-TP-3235} p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life {NASA-CP-3129} p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280. BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate.	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0 3-meter transonic cryogenic.
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS)	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205]	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280. BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate.	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth	CABLES (ROPES) Cable compliance [NASA-TP-3216] p.24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p.34 N91-13043 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3049] p.13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life [NASA-CP-3129] p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279	CABLES (ROPES) Cable compliance [NASA-RP-1246] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-lield-of-view products Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive waif test section for the Langley 0 3-meter transonic cryogenic tunnel [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code: A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional	CABLES (ROPES) Cable compliance [NASA-TP-3216] p.24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p.34 N91-13043 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3049] p.13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life [NASA-CP-3129] p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279	CABLES (ROPES) Cable compliance [NASA-IP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-IRP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel [NASA-IP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-IRP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-IRP-3268] p 49 N91-32006
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16553	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3271] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p /1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280. BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280. BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0.3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16553	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 11 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280. BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280. BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTOHS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A companson with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-2888} p. 11. N91-24199 BOINDARY LAYER FLOW Wall-interference assessment and corrections for	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive waif test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest INASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design.
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3221] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-teading-Edge Flight-Test Program [NASA-TP-2888] BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A companson with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-2888} p. 11. N91-24199 BOINDARY LAYER FLOW Wall-interference assessment and corrections for	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive waif test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest INASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897 BIOSPIERE Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p 36 N91-13842 BIOTECHNOLOGY	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3888] p. 11. N91-24199 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p. 5. N91-20043 Modeling of the heat transfer in bypass transitional	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroring capacitance probe for water wave measurements
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92:30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92:31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92:30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92:31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92:31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3288] BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3288] BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3289 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3289 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p. 5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive waif test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest INASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 [NASA-CP-3136-VOL-1] p 52 N92-22423	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-te-ading-Edge Flight-Test Program [NASA-TP-2888] BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p. 5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27. N92-11299	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0.3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1264] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 CAPCITANCE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] CARBOHYDRATE METABOLISM Fuel utilization during exercise after 7 days of bed rest
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3136-VOL-1) p 52 N92-22423	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A companson with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p 31 N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-3288] p 11 N91-24199 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-370] p 5 N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-370] p 27 N92-11299	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0.3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-RP-1278] p 36 N92-27930 CARBOHYDRATE METABOLISM Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175]
bibliography with indexes (supplement 361) [NASA-SP-7011(361]] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3136-VOL-1) p 52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-te-ading-Edge Flight-Test Program [NASA-TP-2888] BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p. 5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27. N92-11299	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest INASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. INASA-RP-12781] p 36 N92-27930 CARBOHYDRATE METABOLISM Fuel utilization during exercise after 7 days of bed rest INASA-RP-1375] CARBON DIOXIDE
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTOHS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3994) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 NASA-CP-3094 p 1 NASA-CP-3094 p 52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A companson with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-Leading-Edge Flight-Test Program [NASA-TP-2888] p. 11. N91-24199 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p. 5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27. N92-11299 BOUNDARY LAYER TRANSITION Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0.3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-RP-1278] p 36 N92-27930 CARBOHYDRATE METABOLISM Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175]
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3094) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3136-VOL-1) p 52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-teading-Edge Flight-Test Program [NASA-TP-3288] p. 11. N91-24199 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p.5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27. N92-11299 BOUNDARY LAYER TRANSITION Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-2922] p. 6. N91-28143	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-RP-1264] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest INASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-RP-1278] p 36 N92-13556 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-RP-1278] p 36 N92-27930 CARBOHYDRATE METABOLISM Fuel utilization during exercise after 7 days of bed rest NASA-TP-3175] CARBON DIOXIDE Evaluation of noninvasive cardiac output methods during exercise. [NASA-TP-3174] p 38 N92-16553
bibliography with indexes (supplement 361) [NASA-SP-7011(361)] p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 [NASA-CP-3136-VOL-1] p 52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity [NASA-TP-32015] p 44 N91-12315	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92:30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92:31280 BOUNDARY CONDITIONS Panel methods. An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92:31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3237] p. 31. N92:31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-tp-2888] BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-tp-28049 Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p. 5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27. N92-11299 BOUNDARY LAYER TRANSITION Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-2922] p. 6. N91-28143 Modeling of the heat transfer in bypass transitional	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0.3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1264] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPCITANCE A self-zeroing capacitance probe for water wave measurements [NASA-TP-375] p 36 N92-27930 CARBON FIBER REINFORCED PLASTICS
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 1 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3094) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3136-VOL-1) p 52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-3295] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-teading-Edge Flight-Test Program [NASA-TP-3288] p. 11. N91-24199 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p.5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27. N92-11299 BOUNDARY LAYER TRANSITION Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-2922] p. 6. N91-28143	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-RP-1264] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest INASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-RP-1278] p 36 N92-13556 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-RP-1278] p 36 N92-27930 CARBOHYDRATE METABOLISM Fuel utilization during exercise after 7 days of bed rest NASA-TP-3175] CARBON DIOXIDE Evaluation of noninvasive cardiac output methods during exercise. [NASA-TP-3174] p 38 N92-16553
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p.39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p.39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p.39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p.41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p.50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p.51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p.38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p.40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p.36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-30136-VOL-1) p.52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p.44 N91-12315 BLADE-VORTEX (INTERACTION) Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p.44 N91-12315 BLUNT BODIES	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3277] BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3277] BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-3277] BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3870] p.5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p.27. N92-11299 BOUNDARY LAYER TRANSITION Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-3170] p.27. N92-11299 Validation of three-dimensional incompressible spatial	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0.3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1264] p 39 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] p 38 N92-16554 CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-TP-3175] p 36 N92-27930 CABON TPR-1278] CABON TPR-1278] CABON TPR-1278] CABON TPR-1278] CABON TPR-1474] p 38 N92-16554 CARBON FIBER REINFORCED PLASTICS A statistical comparison of two carbon fiber/epoxy fabrication techniques. [NASA-TP-3179] p 22 N92-20950
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3058) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTOHS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3094) p 44 N91-12315 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLUNT BODIES Simulation of real-gas effects on pressure distributions	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems. [NASA-TP-3277] p. 31. N92-31280. BOUNDARY CONDITIONS. Panel methods. An introduction. [NASA-TP-3295] p. 5. N91-19058. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate. [NASA-TP-3205] p. 8. N92-30295. BOUNDARY ELEMENT METHOD. Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth. [NASA-TP-3231] p. 31. N92-31279. Applications of FEM and BEM in two-dimensional fracture mechanics problems. [NASA-TP-3277] p. 31. N92-31280. BOUNDARY LAYER CONTROL. Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-te-ading-Edge Flight-Test Program. [NASA-TP-3288] p. 11. N91-24199. BOUNDARY LAYER FLOW. Wall-interference assessment and corrections for transonic NACA-0012 airfoil data from various wind tunnels. [NASA-TP-370] p. 5. N91-20043. Modeling of the heat transfer in bypass transitional boundary-layer flows. [NASA-TP-3170] p. 27. N92-11299. BOUNDARY LAYER TRANSITION. Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-3170] p. 27. N92-11299. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear.	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175]. CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-TP-3775] p 38 N92-16554 CARBON PIBER REINFORCED PLASTICS A statistical comparison of two carbon fiber/epoxy fabrication feehinques. [NASA-TP-3174] p 38 N92-16553 CARBON FIBER REINFORCED PLASTICS A statistical comparison of two carbon fiber/epoxy fabrication feehinques.
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3098) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTORS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3136-VOL-1) p 52 N92-22423 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Simulation of real-gas effects on pressure distributions for aeroassist flight experiment vehicle and comparison	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY CONDITIONS Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 Validation of three-dimensional incompressible spatial direct numerical simulation code. A companson with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295 BOUNDARY ELEMENT METHOD Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p. 31. N92-31279 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31. N92-31280 BOUNDARY LAYER CONTROL Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-teading-Edge Flight-Test Program [NASA-TP-2888] p. 11. N91-24199 BOUNDARY LAYER FLOW Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind tunnels [NASA-TP-3070] p.5. N91-20043 Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p.27. N92-11299 BOUNDARY LAYER TRANSITION Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-3170] p.27. N92-11299 Validation of three-dimensional incompressible spatial direct numerical simulation code. A companson with linear stability and parabolic stability equation theories for	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-RP-1264] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE) [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-RP-1268] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements [NASA-TP-3175] p 36 N92-27930 CARBON DIOXIDE Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16554 CARBON FIBER REINFORCED PLASTICS A statistical comparison of two carbon fiber/epoxy fabrication fibers.
bibliography with indexes (supplement 361) (NASA-SP-7011(361) p 39 N92-27433 Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363) [NASA-SP-7011(363)] p 39 N92-30987 Track structure model of cell damage in space flight (NASA-TP-3235) p 39 N92-34154 BIOLOGICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life (NASA-CP-3129) p 41 N92-13588 BIOLOGICAL MODELS (MATHEMATICS) Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) p 50 N91-16981 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3058) p 51 N91-26107 BIOMEDICAL DATA Evaluation of noninvasive cardiac output methods during exercise (NASA-TP-3174) p 38 N92-16553 BIOREACTOHS Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity (NASA-TP-3200) p 40 N92-28897 BIOSPHERE Biological Life Support Technologies Commercial Opportunities (NASA-CP-3094) p 36 N91-13842 BIOTECHNOLOGY Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 1 (NASA-CP-3094) p 44 N91-12315 BLADE TIPS Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLADE-VORTEX INTERACTION Wake geometry effects on rotor blade-vortex interaction noise directivity (NASA-TP-3015) p 44 N91-12315 BLUNT BODIES Simulation of real-gas effects on pressure distributions	stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8. N92-30295. Applications of FEM and BEM in two-dimensional fracture mechanics problems. [NASA-TP-3277] p. 31. N92-31280. BOUNDARY CONDITIONS. Panel methods. An introduction. [NASA-TP-3295] p. 5. N91-19058. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate. [NASA-TP-3205] p. 8. N92-30295. BOUNDARY ELEMENT METHOD. Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth. [NASA-TP-3231] p. 31. N92-31279. Applications of FEM and BEM in two-dimensional fracture mechanics problems. [NASA-TP-3277] p. 31. N92-31280. BOUNDARY LAYER CONTROL. Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-te-ading-Edge Flight-Test Program. [NASA-TP-3288] p. 11. N91-24199. BOUNDARY LAYER FLOW. Wall-interference assessment and corrections for transonic NACA-0012 airfoil data from various wind tunnels. [NASA-TP-370] p. 5. N91-20043. Modeling of the heat transfer in bypass transitional boundary-layer flows. [NASA-TP-3170] p. 27. N92-11299. BOUNDARY LAYER TRANSITION. Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National Transonic Facility [NASA-TP-3170] p. 27. N92-11299. Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear.	CABLES (ROPES) Cable compliance [NASA-TP-3216] p 24 N92-30378 CALIBRATING User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p 34 N91-13043 Calibration of the 13- by 13-inch adaptive wail test section for the Langley 0 3-meter transonic cryogenic tunnel. [NASA-TP-3049] p 13 N91-13461 Nimbus-7 TOMS Antarctic ozone attas August - December 1990 [NASA-RP-1264] p 35 N91-26651 Development of the Burst and Transient Source Experiment (BATSE). [NASA-RP-1268] p 49 N91-32006 CALORIC REQUIREMENTS Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175]. CAMBERED WINGS Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design. [NASA-TP-3202] p 9 N92-33656 CAPACITANCE A self-zeroing capacitance probe for water wave measurements. [NASA-TP-3775] p 38 N92-16554 CARBON PIBER REINFORCED PLASTICS A statistical comparison of two carbon fiber/epoxy fabrication feehinques. [NASA-TP-3174] p 38 N92-16553 CARBON FIBER REINFORCED PLASTICS A statistical comparison of two carbon fiber/epoxy fabrication feehinques.

CARBON MONOXIDE SUBJECT INDEX

ARBON MONOXIDE The Interstellar Medium in External Galaxies: Summaries	CHEMICAL EVOLUTION Fourth Symposium on Chemical Evolution and the Ongin	CODING Advanced Modulation and Coding Technolog
of contributed papers	and Evolution of Life	Conference
[NASA-CP-3064] p 49 N91-14100	[NASA-CP-3129] p 41 N92-13588	[NASA-CP-10053] p 16 N92-2200
ARDIAC OUTPUT	CHEMICAL PROPERTIES	COHESION
Evaluation of noninvasive cardiac output methods during	Sand and Dust on Mars	Equivalent crystal theory of alloys
exercise	[NASA-CP-10074] p 50 N91-27057	[NASA-TP-3155] p 23 N91-3031
[NASA-TP-3174] p 38 N92-16553	CHEMICAL PROPULSION	COLLISIONS
ARDIOVASCULAR SYSTEM	Lunar missions using chemical propulsion: System	Paired and Interacting Galaxies Internation
Workshop on Exercise Prescription for Long-Duration	design issues	Astronomical Union Colloquium No. 124
Space Flight	[NASA-TP-3065] p 19 N91-15308	[NASA-CP-3098] p 49 N91-1685
[NASA-CP-3051] p 36 N91-10574	CIRRUS CLOUDS	Orbital debns: Technical issues and future direction
ARTS	FIRE Science Results 1988	[NASA-CP-10077] p 49 N92-3347
Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space	(NASA-CP-3083) p 34 N91-10448	COLUMBIA (ORBITER)
Station crew and equipment translation aid cart	CIVIL AVIATION	The microgravity environment of the Space Shuttl
[NASA-TP-3084] p 29 N91-21556	Flight tests with a data link used for air traffic control	Columbia middeck during STS-32 [NASA-TP-3140] p.48 N92-1193
ASCADE FLOW	information exchange	
Laser anemometer measurements and computations in	[NASA-TP-3135] p 11 N91-31143	The microgravity environment of the Space Shuttle Columbia payload bay during STS-32
an annular cascade of high turning core turbine vanes	Computational Structures Technology for Airframes and	[NASA-TP-3141] p 49 N92-1193
[NASA-TP-3252] p.8 N92-28980	Propulsion Systems	COLUMNS (SUPPORTS)
ATALOGS (PUBLICATIONS)	[NASA-CP-3142] p 31 N92-25911	Buckling and vibration analysis of a simply supporte
NASA scientific and technical publications: A catalog	CLIMATE	column with a piecewise constant cross section
of special publications, reference publications, conference	Climate Impact of Solar Variability	[NASA-TP-3090] p 29 N91-2050
publications, and technical papers, 1989	[NASA-CP-3086] p 50 N91-12456	Determination of the flight hardware configuration of a
[NASA-SP-7063(04)] p 47 N91-13374	Volcanism-Climate Interactions	energy absorbing attenuator for the proposed Spac
NASA scientific and technical publications: A catalog	[NASA-CP-10062] p 34 N91-21641	Station crew and equipment translation aid cart
of special publications, reference publications, conference	The role of water vapor in climate. A strategic research	[NASA-TP-3084] p 29 N91-2155
publications, and technical papers, 1987-1990	plan for the proposed GEWEX water vapor project	COMBUSTIBLE FLOW
[NASA-SP-7063(05)] p 47 N91-24939	(GVaP)	Computational Fluid Dynamics Symposium or
AVITIES	[NASA-CP-3120] p 35 N91-25556	Aeropropulsion
Flow-induced resonance of screen-covered cavities	CLIMATE CHANGE	[NASA-CP-3078] p 5 N91-2106
(NASA-TP-3052) p 25 N91-15499	Climate Impact of Solar Variability	COMBUSTION CHAMBERS
Experimental investigation of porous-floor effects on	[NASA-CP-3086] p 50 N91-12456	Computational Fluid Dynamics Symposium o
cavity flow fields at supersonic speeds	West Antarctic Ice Sheet Initiative. Volume 1: Science	Aeropropulsion
[NASA-TP-3032] p 5 N91-19042	and implementation Plan	[NASA-CP-3078] p.5 N91-2106
Effects of yaw angle and Reynolds number on	[NASA-CP-3115-VOL-1] p 32 N91-20541	High-temperature durability considerations for HSC
rectangular-box cavities at subsonic and transonic	•	combustor
speeds	The role of water vapor in climate. A strategic research	[NASA-TP-3162] p 23 N92-1707
[NASA-TP-3099] p 5 N91-27124	plan for the proposed GEWEX water vapor project (GVaP)	An analysis of combustion studies in shock expansio
Measurements of forces, moments, and pressures on	[NASA-CP-3120] p 35 N91-25556	tunnels and reflected shock tunnels
a generic store separating from a box cavity at supersonic	·	(NASA-TP-3224) p 22 N92-2837
speeds	Sixteenth International Laser Radar Conference, part	COMBUSTION CHEMISTRY
[NASA-TP-3110] p 6 N92-10005	1	Two-dimensional stability of laminar flames
AVITY FLOW	[NASA-CP-3158-PT-1] p 28 N92-29228	(NASA-TP-3131) p.7 N92-1713
Experimental investigation of porous-floor effects on	SAGE 1 data user's guide	An analysis of combustion studies in shock expansio
cavity flow fields at supersonic speeds	(NASA-RP-1275) p 34 N92-33097	tunnels and reflected shock tunnels
[NASA-TP-3032] p 5 N91-19042	CLIMATOLOGY	[NASA-TP-3224] p 22 N92-2837
ELL DIVISION	FIRE Science Results 1988	COMBUSTION PHYSICS
Multiple lesion track structure model	[NASA-CP-3083] p 34 N91-10448	An analysis of combustion studies in shock expansion
[NASA-TP-3185] p 39 N92-22186	Climate Impact of Solar Variability	tunnels and reflected shock tunnels
ELLS (BIOLOGY) Collular track model of biological damage to mammatice	[NASA-CP-3086] p 50 N91-12456	[NASA-TP-3224] p 22 N92-2837
Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays	The atmospheric effects of stratospheric aircraft: A	COMBUSTION PRODUCTS
[NASA-TP-3055] p 50 N91-16981	topical review	Optical measurements on solid specimens of solid rocke
Radiation risk predictions for Space Station Freedom	[NASA-RP-1250] p 33 N91-16466	motor exhaust and solid rocket motor slag
orbits	West Antarctic Ice Sheet Initiative. Volume 2: Discipline	[NASA-TP-3177] p 20 N92-2094
[NASA-TP-3098] p 51 N91-26107	Reviews	COMMERCIAL AIRCRAFT
Cellular repair/misrepair track model	[NASA-CP-3115-VOL-2] p 32 N91-26573	Annoyance caused by aircraft en route noise
[NASA-TP-3124] p 42 N92-11685	International Workshop on Stratospheric Aerosols:	[NASA-TP-3165] D 45 N92-2047
Multiple lesion track structure model	Measurements, Properties, and Effects	COMMUNICATION NETWORKS
[NASA-TP-3185] p 39 N92-22186	[NASA-CP-3114] p 32 N91-32528	Structural factoring approach for analyzing stochasti
Experimental measurement of the orbital paths of	CLOCKS	networks
particles sedimenting within a rotating viscous fluid as	Experimental validation of clock synchronization	[NASA-TP-3069] p 43 N91-1875
influenced by gravity	algorithms	Control Center Technology Conference Proceeding
[NASA-TP-3200] p 40 N92-28897	[NASA-TP-3209] p 42 N92-27589	[NASA-CP-10081] p 14 N92-1201
Track structure model of cell damage in space flight	CLOSED ECOLOGICAL SYSTEMS	Space Communications Technology Conference
(NASA-TP-3235) p 39 N92-34154	Biological Life Support Technologies Commercial	Onboard Processing and Switching
ENTAUR LAUNCH VEHICLE	Opportunities	[NASA-CP-3132] p 25 N92-1420
Graphite/epoxy composite adapters for the Space	[NASA-CP-3094] p 36 N91-13842	Propagation effects for land mobile satellite systems
Shuttle/Centaur vehicle	Controlled Ecological Life Support Systems: Natural and	Overview of experimental and modeling results
[NASA-TP-3014] p 15 N92-31251	Artificial Ecosystems	[NASA-RP-1274] p 25 N92-2040
ERAMIC COATINGS	[NASA-CP-10040] p 40 N91-24744	COMMUNICATION SATELLITES
Gibbs free energy of reactions involving SiC, Si3N4, H2,	CLOHD PHYSICS	
	Volcanism-Climate Interactions	A new fabrication method for precision antenn reflectors for space flight and ground test
and H2O as a function of temperature and pressure		[NASA-TP-3078] p 17 N91-2118
[NASA-TP-3275] p 23 N92-31278	[NASA-CP-10062] p 34 N91-21641	
(NASA-TP-3275) p 23 N92-31278 ERAMIC MATRIX COMPOSITES	[NASA-CP-10062] p 34 N91-21641 CLOUDS	
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT		Space Communications Technology Conference
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor	CLOUDS	Space Communications Technology Conference Onboard Processing and Switching
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070	CLOUDS Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor {NASA-TP-3162} p 23 N92-17070 HANNEL FLOW	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p.11 N91-24199	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture to
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions	CLOUDS Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) CLOUDS (METEOROLOGY)	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture to 30/20-GHz FDMA/TDM geostationary communication
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p. 11 N91-24199 CLOUDS (METEOROLOGY) Alias of the Earth's radiation budget as measured by	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p. 25 N92-1420 Destination-directed, packet-switching architecture to 30/20-GHz FDMA/TDM geostationary communication satellite network
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p. 11 N91-24199 CLOUDS (METEOROLOGY) Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p. 25 N92-1420 Destination-directed, packet-switching architecture to 307/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p. 16 N92-1976
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p.11 N91-24199 CLOUDS (METEOROLOGY) Atlas of the Earth's radiation budget as measured by Nimbus-7* May 1979 to May 1980 [NASA-RP-1263] p.35 N91-24720	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture fr. 307/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976 COMPLEX SYSTEMS
[NASA-TP-9275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A:	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p. 11 N91-24199 CLOUDS (METEOROLOGY) Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture to 30/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A: Steady motional induction of geomagnetic chaos	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p.11 N91-24199 CLOUDS (METEOROLOGY) Atlas of the Earth's radiation budget as measured by Nimbus-7* May 1979 to May 1980 [NASA-RP-1263] p.35 N91-24720	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p. 25 N92-1420 Destination-directed, packet-switching architecture to 30720-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p. 16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Markor reliability models and the corresponding error bound
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p. 11 N91-24199 CLOUDS (METEOROLOGY) Allas of the Earth's radiation budget as measured by Nimbus-7- May 1979 to May 1980 (NASA-RP-1263) p. 35 N91-24720 COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture fr. 307/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-2574
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p.11 N91-24199 (CLOUDS (METEOROLOGY) Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1263] p.35 N91-24720 (COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p.25 N92-11252	Space Communications Technology Conference Onboard Processing and Switching [NASA-TP-3201] p. 25 N92-1420 Destination-directed, packet-switching architecture fr. 307/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p. 16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Markor reliability models and the corresponding error bound [NASA-TP-3089] p. 43 N91-2574 COMPONENT RELIABILITY
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAO3 Steady induction effects in geomagnetism. Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES Transport methods and interactions for space	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p. 11 N91-24199 CLOUDS (METEOROLOGY) Alias of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 (NASA-RP-1263) p. 35 N91-24720 COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets (NASA-TP-3119) p. 25 N92-11252 COCKPITS	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p. 25 N92-1420 Destination-directed, packet-switching architecture to 30/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p. 16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko reliability models and the corresponding error bound [NASA-TP-3089] p. 43 N91-2574 COMPONENT RELIABILITY Reliability of a Shuttle reaction timer
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor (NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES Transport methods and interactions for space radiations	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p. 11 N91-24199 CLOUDS (METEOROLOGY) Allas of the Earth's radiation budget as measured by Nimbus-7 May 1979 to May 1980 (NASA-RP-1263) p. 35 N91-24720 COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets (NASA-TP-3119) p. 25 N92-11252 COCKPITS Aviation Safety/Automation Program Conference	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture from 30720-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-2574 COMPONENT RELIABILITY Reliability of a Shuttle reaction timer [NASA-TP-3176] p.40 N92-1656
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetic chaos Steady induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p.11 N91-24199 (CLODS (METEOROLOGY) Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1263] p.35 N91-24720 (COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p.25 N92-11252 (COCKPITS Aviation Safety/Automation Program Conference [NASA-CP-3090] p.9 N91-10936	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture fr. 307.20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko reliability models and the corresponding error bound [NASA-TP-3088] p.43 N91-2574 COMPONENT RELIABILITY Reliability of a Shuttle reaction timer [NASA-TP-3176] p.40 N92-1656 COMPOSITE MATERIALS
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A: Steady induction effects in geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES Transport methods and interactions for space radiations [NASA-IP-1257] p 51 N92-15956 HEMICAL COMPOSITION	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p. 11 N91-24199 CLOUDS (METEOROLOGY) Alias of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1263] p. 35 N91-24720 COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p. 25 N92-11252 COCKPITS Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 CODERS	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p. 25 N92-1420 Destination-directed, packet-switching architecture to 307.20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p. 16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko reliability models and the corresponding error bound [NASA-TP-3089] p. 43 N91-2574 COMPONENT RELIABILITY Reliability of a Shuttle reaction timer [NASA-TP-3176] p. 40 N92-1656 COMPOSITE MATERIALS National Educators' Workshop Update 1991 Standar
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor (NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAO3 Steady induction effects in geomagnetism. Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HEMICAL COMPOSITION Electrical and chemical interactions at Mars Workshop.	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program (NASA-TP-2888) p. 11 N91-24199 CLOUDS (METEOROLOGY) Allas of the Earth's radiation budget as measured by Nimbus-7 May 1979 to May 1980 (NASA-RP-1263) p. 35 N91-24720 COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets (NASA-TP-3119) p. 25 N92-11252 COCKPITS Aviation Safety/Automation Program Conference (NASA-CP-3090) p. 9 N91-10936 CODERS Long-term life testing of Geostationary Operational	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420 Destination-directed, packet-switching architecture from 30720-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976 COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Marko reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-2574 COMPONENT RELIABILITY Reliability of a Shuttle reaction timer [NASA-TP-3176] p.40 N92-1656 COMPOSITE MATERIALS National Educators Workshop Update 1991 Standar Experiments in Engineering Materials Science and Sc
[NASA-TP-3275] p 23 N92-31278 ERAMIC MATRIX COMPOSITES High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 HANNEL FLOW A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 HAOS Steady induction effects in geomagnetism. Part 1A: Steady induction effects in geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 HARGED PARTICLES Transport methods and interactions for space radiations [NASA-IP-1257] p 51 N92-15956 HEMICAL COMPOSITION	Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p. 11 N91-24199 CLOUDS (METEOROLOGY) Alias of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1263] p. 35 N91-24720 COBALT The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p. 25 N92-11252 COCKPITS Aviation Safety/Automation Program Conference [NASA-CP-3090] p. 9 N91-10936 CODERS	Space Communications Technology Conference Onboard Processing and Switching [NASA-CP-3132] p.25 N92-1420. Destination-directed, packet-switching architecture to 307/20-GHz FDMA/TDM geostationary communication satellite network [NASA-TP-3201] p.16 N92-1976. COMPLEX SYSTEMS Model reduction by trimming for a class of semi-Markor reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-2574 COMPONENT RELIABILITY Reliability of a Shuttle reaction timer [NASA-TP-3176] p.40 N92-1656.

COMPOSITE STRUCTURES	Workshop on Grid Generation and Related Areas	MIRACAL A mission radiation calculation program for
Structural properties of laminated Douglas fir/epoxy	[NASA-CP-10089] p 12 N92-25712	analysis of lunar and interplanetary missions
composite material	Trajectory fitting in function space with application to	[NASA-TP-3211] p 51 N92-25100
[NASA-RP-1236] p 20 N91-10127	analytic modeling of surfaces	COMPUTER SYSTEMS DESIGN
Research in Structures, Structural Dynamics and	[NASA-TP-3232] p 8 N92-30747	Technology 2000, volume 1
Materials, 1990	Direct simulation of high-speed mixing layers	[NASA-CP-3109-VOL-1] p 52 N91-23021
[NASA-CP-3064] p 29 N91-10301	[NASA-TP-3186] p 8 N92-30909	NASA-LaRc Flight-Critical Digital Systems Technology
Free vibrations of thin-walled semicircular	A method for designing blended wing-body	Workshop
graphite-epoxy composite frames	configurations for low wave drag [NASA-TP-3261] p.8 N92-32480	[NASA-CP-10028] p 11 N91-24200
[NASA-TP-3010] p 29 N91-13750	COMPUTER AIDED DESIGN	COMPUTER SYSTEMS PERFORMANCE
NASA workshop on impact damage to composites	On-orbit structural dynamic performance of a 15-meter	Advanced techniques in reliability model representation
[NASA-CP-10075] p 21 N91-29240	microwave radiometer antenna	and solution
Optimization of composite sandwich cover panels	[NASA-TP-3041] p 16 N91-17114	[NASA-TP-3242] p 43 N92-33483
subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679	Guidance, navigation, and control subsystem equipment	COMPUTER TECHNIQUES
· · · · · · · · · · · · · · · · · · ·	selection algorithm using expert system methods	Report of the workshop on Aviation Safety/Automation Program
Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle	[NASA-TP-3082] p 42 N91-25624	[NASA-CP-10054] p.9 N91-15141
[NASA-TP-3014] p 15 N92-31251	A method for determining spiral-bevel gear tooth	Technique to eliminate computational instability in
Eighth DOD/NASA/FAA Conference on Fibrous	geometry for finite element analysis	multibody simulations employing the Lagrange multiplier
Composites in Structural Design, part 1	[NASA-TP-3096] p 28 N92-10195 Second CLIPS Conference Proceedings, volume 1	[NASA-TP-3220] p 42 N92-23432
[NASA-CP-3087-PT-1] p 22 N92-32513	[NASA-CP-10085-VOL-1] p 42 N92-16568	COMPUTER VISION
Eighth DOD/NASA/FAA Conference on Fibrous	Software Surface Modeling and Grid Generation	The 1991 Goddard Conference on Space Applications
Composites in Structural Design, part 2	Steering Committee	of Artificial Intelligence
[NASA-CP-3087-PT-2] p 22 N92-32574	[NASA-CP-3143] p 42 N92-24397	[NASA-CP-3110] p 43 N91-22/69
COMPRESSIBLE FLOW	Computational Structures Technology for Airframes and	COMPUTERIZED SIMULATION
Evaluation of a technique to generate artificially	Propulsion Systems	A scheme for bandpass filtering magnetometer
thickened boundary layers in supersonic and hypersonic	[NASA-CP-3142] p 31 N92-25911	measurements to reconstruct tethered satellite skiprope
flows	COMPUTER AIDED MANUFACTURING	motion
[NASA-TP-3142] p 6 N91-28136	The Federal Conference on Intelligent Processing	[NASA-TP-3123] p 42 N91-25629
COMPRESSION LOADS	Equipment p 52 N92-24987	Analyses of risks associated with radiation exposure
Optimization of composite sandwich cover panels	[NASA-CP-3138] p 52 N92-24987 COMPUTER AIDED TOMOGRAPHY	from past major solar , 'a events
subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679	Second Conference on NDE for Aerospace	[NASA-TP-3137] p 50 N91-31061
COMPRESSION TESTS	Requirements	Modeling of the heat transfer in bypass transitional boundary-layer flows
Properties of three graphite/toughened resin	[NASA-CP-3091] p 16 N91-18189	[NASA-TP-3170] p 27 N92-11299
composites	COMPUTER INFORMATION SECURITY	Human Machine Interfaces for Teleoperators and Virtual
[NASA-TP-3102] p 21 N92-10067	Proceedings of the Second Annual NASA Science	Environments Conference
Experimental behavior of graphite-epoxy Y-stiffened	Internet User Working Group Conference	[NASA-CP-10071] p 40 N92-11638
specimens loaded in compression	[NASA-CP-3117] p 48 N91-27009	Flight deck benefits of integrated data link
[NASA-TP-3171] p 30 N92-23115	COMPUTER NETWORKS	communication
COMPRESSIVE STRENGTH	Proceedings of the Second Annual NASA Science	[NASA-TP-3219] p 10 N92-21459
A statistical comparison of two carbon fiber/epoxy	Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009	Fault tolerance of artificial neural networks with
fabrication techniques	Control Center Technology Conference Proceedings	applications in critical systems
[NASA-TP-3179] p 22 N92-20950 COMPUTATION	[NASA-CP-10081] p 14 N92-12010	[NASA-TP-3187] p 42 N92-22285
Computational methods for frictionless contact with	COMPUTER PROGRAMMING	Technique to eliminate computational instability in multibody simulations employing the Lagrange multiplier
application to Space Shuttle Orbiter nose-gear tires	Space Transportation Avionics Technology Symposium.	[NASA-TP-3220] D 42 N92-23432
[NASA-TP-3073] p 30 N91-22576	Volume 2: Conference Proceedings	Validation of three-dimensional incompressible spatial
COMPUTATIONAL FLUID DYNAMICS	[NASA-CP-3081-VOL-2] p 11 N91-17020	direct numerical simulation code: A comparison with linear
NASA Computational Fluid Dynamics Conference.	COMPUTER PROGRAMS	stability and parabolic stability equation theores for
Volume 1: Sessions 1-6	Transonic flow analysis for rotors. Part 3.	boundary-layer transition on a flat plate
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} p.4 N91-10839	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference.	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference, Volume 2: Sessions 7-12	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3. N91-10007 Prediction of effects of wing contour modifications on	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} p. 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} p. 4 N91-10868	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} p.4 N91-10868 Computational Fluid Dynamics Symposium on	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p.4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium: Theory, Application and Experiment, volume 2	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p.4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p.4. N91-13401	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] [NASA-CP-10038-VOL-2] [NASA-CP-10038-VOL-2] [NASA-CP-3078] [NASA-CP-3078] [Value	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] Physically weighted approximations of unsteady	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} P 4 N91-10839 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 {NASA-CP-3020-VOL-2} P 5 N91-24132 Advanced Hypervelocity Aerophysics Facility	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] p.4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p.4. N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p.4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p.4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p.4 N91-18031	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} Quantity Dynamics Symposium on Aeropropulsion {NASA-CP-3078} Transonic Symposium: Theory, Application and Experiment, volume 2 {NASA-CP-3020-VOL-2} Advanced Hypervelocity Aerophysics Facility Workshop {NASA-CP-10031} P 13 N91-24211	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] Panel methods: An introduction	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercelf storm: Video supplement to NASA Technical Paper 3230
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium Theory, Application and Experiment, volume 2 {NASA-CP-3020-VOL-2} p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 Shock wave interaction with an abrupt area change	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] p.4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p.4. N91-13401 p.4. N91-13401 p.4. N91-13401 p.4. N91-13401 p.4. N91-18031 p.4. N91-18031 p.4. N91-18031 p.4. N91-18031 p.4. N91-19058	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 Shock wave interaction with an abrupt area change [NASA-TP-3113] p 6 N91-27140	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] Panel methods: An introduction	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Te-chical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium Theory, Application and Experiment, volume 2 {NASA-CP-3020-VOL-2} p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 Shock wave interaction with an abrupt area change	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p.4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p.4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p.4 N91-18031 p. Panel methods: An introduction [NASA-TP-2995] p.5 N91-19058 State estimation applications in aircraft flight-data.	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} NASA-CP-10038-VOL-2 Computational Fluid Dynamics Symposium on Aeropropulsion NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 {NASA-CP-3020-VOL-2} Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031 Shock wave interaction with an abrupt area change NASA-TP-3113] Seals Flow Code Development	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-2995] p N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991	boundary-layer transition on a flat plate [NASA-TP-3205] p.8. N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8. N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43. N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25. N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p.36. N92-34246 CONFERENCES Research in Structures, Structural Dynamics and
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] P 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] Shock wave interaction with an abrupt area change [NASA-CP-110070] Seals Flow Code Development [NASA-CP-110070] Software Surface Modeling and Grid Cimeration Steering Committee	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-88 aircraft [NASA-TP-3046] p.4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p.4. N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p.4. N91-18031 Panel methods: An introduction [NASA-TP-2985] p.5. N91-19058 State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p. 10. N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p. 12. N91-20086	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercelf storm: Video supplement to NASA Technical Paper 3230 [NASA-TP-3200-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} NASA-CP-10038-VOL-2 NASA-CP-10038-VOL-2 NASA-CP-10038-VOL-2 NASA-CP-3078 Transonic Symposium on Aeropropulsion NASA-CP-3078 Transonic Symposium Theory, Application and Experiment, volume 2 {NASA-CP-3020-VOL-2} NASA-CP-3020-VOL-2 NASA-CP-3020-VOL-2 NASA-CP-10031 Shock wave interaction with an abrupt area change [NASA-CP-10031] Shock wave interaction with an abrupt area change [NASA-CP-10070] Seals Flow Code Development [NASA-CP-10070] Software Surface Modeling and Grid Cineration Steening Committee [NASA-CP-3143] P 42 N92-24397	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] p. 4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p. 4. N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p. 4. N91-18031 Panel methods: An introduction [NASA-TP-2995] State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-PP-1252] Aeropropulsion 1991 [NASA-CP-10063] p. 12. N91-20066 Improvements in computational accuracy of BRYNTRN	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NASA-CP-107070 NASA-CP-3143] Naries Surface Modeling and Grid C-neration Steening Committee	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 p 4 N91-18031 p 5 N91-18031 p 1 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1325] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code)	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Technical Paper 3230 [NASA-TP-320-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference.
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] P 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] P 13 N91-24132 Seals Flow Code Development [NASA-CP-10070] Seals Flow Code Development [NASA-CP-10070] Software Surface Modeling and Grid C-meration Steering Committee [NASA-CP-1143] Workshop on Engineering Turbulence Modeling [NASA-CP-10088] P 27 N92-24514	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 p and methods: An introduction [NASA-TP-3995] State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFEMENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6
Volume 1: Sessions 1-6 {NASA-CP-10038-VOL-1} NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 {NASA-CP-10038-VOL-2} NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2 {NASA-CP-10038-VOL-2} NASA-CP-3078 NASA-CP-3078 NASA-CP-3078 NASA-CP-3078 NASA-CP-3020-VOL-2 NASA	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p.4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p.4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p.4 N91-18031 Panel methods: An introduction [NASA-TP-3955] p.5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p.10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p.12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code) {NASA-TP-3093} p.5 N91-23017 Technology 2000, volume 1	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Voluma 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078-1] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10040 NASA-CP-10040 NASA-CP-10040 NASA-CP-10040 NASA-CP-10048	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046] p. 4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p. 4. N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p. 4. N91-18031 Panel methods: An introduction [NASA-TP-3025] p. 5. N91-19058 State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p. 10. N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p. 12. N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-CP-3109-VOL-1] p. 52. N91-23021	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenials, 1990 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3084] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference.
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 Shock wave interaction with an abrupt area change [NASA-CP-10070] p 15 N92-15082 Software Surface Modeling and Grid C ineration Steening Committee [NASA-CP-10088] p 27 N92-24397 Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-1008] p 12 N92-25808	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p N91-18031 p anel methods: An introduction [NASA-TP-2995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFEMENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA-Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 NASA-CP-3078 NASA-CP-3078 NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-3020-VOL-2]	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-88 aircraft [NASA-TP-3046] p. 4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p. 4. N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p. 4. N91-18031 Panel methods: An introduction [NASA-TP-2935] p. 5. N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK {NASA-RP-1252} p. 10. N91-19082 Aeropropulsion 1991 {NASA-CP-10063} p. 12. N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon transport code) {NASA-CP-3109-VOL-1} p. 52. N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference.
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 Shock wave interaction with an abrupt area change [NASA-CP-10070] p 15 N92-15082 Software Surface Modeling and Grid C ineration Steening Committee [NASA-CP-10088] p 27 N92-24397 Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-1008] p 12 N92-25808	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p. 4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p. 4. N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p. 4. N91-18031 Panel methods: An introduction [NASA-TP-3025] p. 5. N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p. 10. N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p. 12. N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p. 51. N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p. 52. N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p. 2. N91-26113	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFEMENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA-Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p 5 N91-24132 Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-3020-VOL-2] p 13 N91-24213 Shock wave interaction with an abrupt area change [NASA-CP-10031] p 13 N91-24211 Shock wave interaction with an abrupt area change [NASA-CP-10070] p 15 N92-15082 Software Surface Modeling and Gnd C-meration Steering Committee [NASA-CP-10070] p 15 N92-15082 Software Surface Modeling and Gnd C-meration Steering Committee [NASA-CP-10070] p 17 N92-24397 Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 Computational Fluid Dynamics numerical methods and algorithm development [NASA-CP-1078] p 12 N92-25608 NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p 8 N92-29625 Stagnation-point heat-transfer rate predictions at	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 Panel methods: An introduction [NASA-TP-3995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23017 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] A three-dimensional finite-element thermal/mechanical	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p 43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p 25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercelf storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246 CONFERNCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p 34 N91-10448 NASA-CP-3083] p 34 N91-10448 NASA-CP-3083] p 4 N91-1048 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-10038-VOL-2] p 4 N91-10868 Awiation Safety/Automation Program Conference. [NASA-CP-3090] p 9 N91-10936 Twenty-Second Annual NASA Supply and Equipment
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10088 NASA-CP-3143 NASA-CP-10088 NASA-CP-10088 NASA-CP-10088 NASA-CP-10088 NASA-CP-10088 NASA-CP-10088 NASA-CP-10098 NASA-CP	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 p 1 N91-18031 p 1 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-TP-3925] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3064] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2 Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference. [NASA-CP-3090] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference.
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10088 NASA-CP-3143 Norkshop on Engineering Turbulence Modeling (NASA-CP-10088) NASA-CP-10078 NASA-CP-10079 NAS	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 Panel methods: An introduction [NASA-TP-3995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23017 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] A three-dimensional finite-element thermal/mechanical	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA-Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA-COmputational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 Avistion Safety/Automation Program Conference [NASA-CP-3090] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.4 N91-11591
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031] NASA-CP-10031] NASA-CP-10031] NASA-CP-10031] NASA-CP-10070] NASA-CP-10092]	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p. 4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p. 4. N91-13401 p. 2. N91-13401 p. N91-13401 p. 2. N91-13025] p. 4. N91-13031 p. 2. N91-18031 p. 2. N91-18031 p. 2. N91-18031 p. 3. N91-19058 p. N91-19058 state estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-TP-3925] p. 10. N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p. 12. N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p. 51. N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p. 52. N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p. 2. N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p. 25. N91-27436	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p 43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p 25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercelf storm: Video supplement to NASA-TP-3200-VIDEO-SUPPL] p 36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p 34 N91-10448 NASA-CP-3083] p 34 N91-10448 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-3009-1 p 19 N91-10936 Awation Safety/Automation Program Conference. [NASA-CP-3009-1 p 9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p 46 N91-11591 Airborne Wind Shear Detection and Warning Systems.
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA COmputational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10088 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-3145 NASA-CP-10088 NASA-CP-3145 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10092 NASA	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p. 3. N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p. 4. N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p. 4. N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-2995] p. 4. N91-18031 Panel methods: An introduction [NASA-TP-2995] p. 5. N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p. 10. N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p. 12. N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p. 51. N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p. 52. N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p. 2. N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p 43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p 25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3202-VIDEO-SUPPL] p 36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3064] p 29 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2 Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10966 Aviation Safety/Automation Program Conference. [NASA-CP-10038-VOL-2] p 4 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP-10042] p 4 N91-11591 Airborne Wind Shear Detection and Warming Systems. Second Combined Manufacturers' and Technologists'
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10088 NASA-CP-10088 NASA-CP-10088 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10079 NASA-CP-10089 NASA-CP-10078	Transonic flow analysis for rotors. Part 3. Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 5 N91-18031 p 1 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-TP-2995] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 [Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 HZETRN: A heavy ion/nucleon transport code for space	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282.] p.25 N92-33601 [NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference [NASA-CP-3090] Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.46 N91-11591 Airborne Wind Shear Detection and Warming Systems. Second Combined Manufacturers' and Technologists' Conference, part 1
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 N	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-88 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p 4 N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p 4 N91-18031 Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Tachnology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 HZETRN: A heavy ion/nucleon transport code for space radiations	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p 43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p 25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p 34 N91-10448 NASA-CP-3093] p 34 N91-10448 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-10038-VOL-2] p 4 N91-10868 Aviation Safety/Automation Program Conference. [NASA-CP-10038-VOL-2] p 9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p 46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10088 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-10088 NASA-CP-3145 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10092 NASA-CP-10092-100-100-100-100-100-100-100-100-100-10	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p 4 N91-10401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p 4 N91-18031 Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p 43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p 25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282] p 36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3034] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3064] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3084] p 34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2 Sessions 7-12 [NASA-CP-10042] p 4 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP-10042] p 46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 N	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p 4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p 4 N91-18031 Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23017 Technology 2000, volume 1 [NASA-TP-310] p 29 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance travelling wave tubes [NASA-TP-3081] p 25 N91-27436 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Optimization of composite sandwich cover panels	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p 43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p 25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p 29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p 34 N91-10448 NASA-CP-3093] p 34 N91-10448 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-10038-VOL-1] p 4 N91-10839 NASA-CP-10038-VOL-2] p 4 N91-10868 Aviation Safety/Automation Program Conference. [NASA-CP-10038-VOL-2] p 9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p 46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p 9 N91-11682
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078] Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NASA-CP-10070 NASA-CP-10088 NASA-CP-3143 Norkshop on Engineering Turbulence Modeling (NASA-CP-10078) NASA-CP-10078 N	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-88 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 Panel methods: An introduction [NASA-TP-2995] State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3146] p 55 N91-27436 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Optimization of composite sandwich cover panels subjected to compressive loadings	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282.] p.25 N92-33601 [NASA-TP-3280-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference [NASA-CP-10038-VOL-2] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists'
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3078] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NA	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment p 4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 Panel methods: An introduction [NASA-TP-3025] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3106] p 55 N91-27436 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 An efficient HZETRN (a galactic cosmic ray transport code)	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282] p.25 N92-33601 [NASA-TP-3280-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Matenals, 1990 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10869 ANSA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference [NASA-CP-10038-VOL-2] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-2] p.9 N91-11682 NASA-CP-10050-PT-2] p.9 N91-11682 [NASA-CP-10050-PT-2] p.9 N91-11682
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10088 NASA-CP-3143 Norkshop on Engineering Turbulence Modeling (NASA-CP-10088) NASA-CP-10088 NASA-CP-10088 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10092 Stagnation-point heat-transfer rate predictions at aeroassist flight conditions [NASA-CP-3128] Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 NASA-CP-3128 NASA-CP-3108-PT-2 NASA-CP-3128-PT-2 NASA-CP-3128-PT-2 NASA-CP-3103-PT-2 NASA-CP-3108-PT-1 NASA-CP-3108-PT-1 NASA-CP-3108-PT-1 NASA-CP-3108-PT-1 NASA-CP-3103-PT-2 NASA-CP-3103-PT-1 NASA-CP-3103-PT-1	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-88 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p 4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p 4 N91-18031 Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3146] p 51 N92-15959 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA-CP-3083] p.34 N91-10448 NASA-CP-3083] p.34 N91-10839 NASA-CP-10038-VOL-1] p.4 N91-10839 NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference [NASA-CP-10039-VOL-2] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p.9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-1] p.9 N91-11695 Measurement and Characterization of the Acceleration Environment on Board the Space Station
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10030 NASA-CP-10030 NASA-CP-10030 NASA-CP-10031 NASA-CP-10088 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-3143 NASA-CP-10088 NASA-CP-10088 NASA-CP-10088 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10092 NASA-CP-10093-CC Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 NASA-CP-1008-CP-1008-CP-101-COMPUTATIONAL GRIDS NASA Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 NASA-CP-1008-CP-101-COMPUTATIONAL GRIDS NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 NASA-CP-10036-VOL-1 NASA-CP-10036-VOL-1 NASA-CP-10038-VOL-1 NASA-C	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-68 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p 4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p 4 N91-18031 Panel methods: An introduction [NASA-TP-3025] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-PP-1325] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23017 Technology 2000, volume 1 [NASA-TP-3081] p 22 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3147] p 51 N92-22218 Improved accuracy for finite element structural analysis	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3282] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3084] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3084] p.34 N91-10448 NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p.4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2 Sessions 7-12 [NASA-CP-10042] p.4 N91-10868 Aviation Safety/Automation Program Conference. [NASA-CP-10042] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p.9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-2] p.9 N91-11695 Measurement and Characterization of the Acceleration [NASA-CP-3088] p.48 N91-12401
Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-10038-VOL-2] NASA-CP-3078 Transonic Symposium: Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-3020-VOL-2] NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10031 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10070 NASA-CP-10088 NASA-CP-3143 Norkshop on Engineering Turbulence Modeling (NASA-CP-10088) NASA-CP-10088 NASA-CP-10088 NASA-CP-10078 NASA-CP-10078 NASA-CP-10078 NASA-CP-10092 Stagnation-point heat-transfer rate predictions at aeroassist flight conditions [NASA-CP-3128] Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 NASA-CP-3128 NASA-CP-3108-PT-2 NASA-CP-3128-PT-2 NASA-CP-3128-PT-2 NASA-CP-3103-PT-2 NASA-CP-3108-PT-1 NASA-CP-3108-PT-1 NASA-CP-3108-PT-1 NASA-CP-3108-PT-1 NASA-CP-3103-PT-2 NASA-CP-3103-PT-1 NASA-CP-3103-PT-1	Transonic flow analysis for rotors. Part 3 Three-dimensional, quasi-steady. Euler calculation [NASA-TP-2375] p 3 N91-10007 Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-88 aircraft [NASA-TP-3046] p 4 N91-10902 Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment {NASA-TP-3035} p 4 N91-13401 Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method {NASA-TP-3025} p 4 N91-18031 Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 State estimation applications in aircraft flight-data analysis. A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Improvements in computational accuracy of BRYNTRN (a baryon fransport code) [NASA-TP-3093] p 51 N91-23017 Technology 2000, volume 1 [NASA-CP-3109-VOL-1] p 52 N91-23021 Development of an integrated aeroservoelastic analysis program and correlation with test data [NASA-TP-3120] p 2 N91-26113 A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3146] p 51 N92-15959 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295 Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p.43 N92-33483 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3282] p.25 N92-33601 Inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA-TP-3230-VIDEO-SUPPL] p.36 N92-34246 CONFERENCES Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p.29 N91-10301 FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448 NASA-CP-3083] p.34 N91-10448 NASA-CP-3083] p.34 N91-10839 NASA-CP-10038-VOL-1] p.4 N91-10839 NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference. Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p.4 N91-10868 Aviation Safety/Automation Program Conference [NASA-CP-10039-VOL-2] p.9 N91-10936 Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP-10042] p.46 N91-11591 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10050-PT-1] p.9 N91-11682 Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10050-PT-1] p.9 N91-11695 Measurement and Characterization of the Acceleration Environment on Board the Space Station

The Interstellar Medium in External Galaxies: Summaries of contributed papers
[NASA-CP-3084] p 49 N91-14100
Interstellar Dust: Contributed Papers
[NASA-CP-3036] p 48 N91-14897 Report of the workshop on Aviation Safety/Automation
Program
[NASA-CP-10054] p 9 N91-15141
Space Station Freedom Toxic and Reactive Materials Handling
[NASA-CP-3085] p 48 N91-15930
Fourth International Symposium on Long-Range Sound
Propagation [NASA-CP-3101] p 44 N91-16682
Paired and Interacting Galaxies: International
Astronomical Union Colloquium No. 124
[NASA-CP-3098] p 49 N91-16858 Space Transportation Avionics Technology Symposium.
Volume 2: Conference Proceedings
[NASA-CP-3081-VOL-2] p 11 N91-17020
Flight Mechanics/Estimation Theory Symposium, 1990
[NASA-CP-3102] p 14 N91-17073 NASA Formal Methods Workshop, 1990
[NASA-CP-10052] p 42 N91-17559
Current Collection from Space Plasmas
[NASA-CP-3089] p 46 N91-17713 Second Conference on NDE for Aerospace
Second Conference on NDE for Aerospace Requirements
[NASA-CP-3091] p 16 N91-18189
The 5th Annual NASA Spacecraft Control Laboratory
Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122
Sixteenth Space Simulation Conference Confirming
Spaceworthiness Into the Next Millennium
[NASA-CP-3096] p 17 N91-19126
Space Photovoltaic Research and Technology, 1989 [NASA-CP-3107] p 19 N91-19182
Proceedings of the X-15 First Flight 30th Anniversary
Celebration
[NASA-CP-3105] p 10 N91-20071 National Educators' Workshop: Update 1988. Standard
Experiments in Engineering Materials Science and
Technology
[NASA-CP-3060] p 20 N91-20207
Nineteenth NASTRAN (R) Users' Colloquium [NASA-CP-3111] p 29 N91-20506
Fourth Annual Workshop on Space Operations
Applications and Research (SOAR 90)
[NASA-CP-3103-VOL-1] p 41 N91-20641
Fourth Annual Workshop on Space Operations
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 NASA-CP-10061-VOL-11 p 43 N91-21778
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10055-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 [NASA-CP-3110] p 43 N91-22769
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists'
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-2231 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-2179 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10030] p 19 N91-24307 The 25th Aerospace Mechanisms Symposium
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10060-PT-2] p 9 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3110] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-3103] p 19 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 Proceedings of the Second Annual NASA Science
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10060-PT-2] p 9 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 9) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22311 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24100 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10060-PT-2] p 9 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009 Technology for the Future. In-Space Technology
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA-Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24100 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10030] p 19 N91-24603 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009 Experiments Program, part 1
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-27769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10069-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10030] p 19 N91-24507 The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-2777
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA-Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10060-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24100 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10030] p 19 N91-24603 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009 Experiments Program, part 1
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10030] p 9 N91-24100 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-3103-VOL-2] p 9 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-10030] p 19 N91-24603 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27709 Technology for the Future: In-Space Technology Experiments Program, part 2 [NASA-CP-10073-PT-2] p 14 N91-27177 Technology for the Future: In-Space Technology Experiments Program, part 2 [NASA-CP-10073-PT-2] p 14 N91-27178
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10061-VOL-1] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-10030] p 19 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-10030] p 19 N91-24009 Technology for the Future: In-Space Technology Experiments Program, part 2 INASA-CP-10073-PT-1] p 14 N91-27177 Technology for the Future: In-Space Technology Experiments Program, part 2 INASA-CP-10073-PT-1] p 14 N91-27177 Technology for the Future: In-Space Technology Experiments Program, part 2 INASA-CP-10073-PT-1] p 14 N91-27177 Technology for the Future: In-Space Technology Experiments Program, part 2 INASA-CP-10073-PT-1] p 14 N91-27177 Technology for the Future: In-Space Technology
Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811 Computational Fluid Dynamics Symposium on Aeropropulsion [NASA-CP-3078] p 5 N91-21062 Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p 43 N91-21778 Vision-21: Space Travel for the Next Millennium [NASA-CP-10059] p 13 N91-22139 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 The 1991 Goddard Conference on Space Applications of Artificial Intelligence [NASA-CP-3110] p 43 N91-22769 Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041 Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10030] p 9 N91-24100 Structural Integrity and Durability of Reusable Space Propulsion Systems [NASA-CP-3103-VOL-2] p 9 N91-24307 The 25th Aerospace Mechanisms Symposium [NASA-CP-10030] p 19 N91-24603 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27709 Technology for the Future: In-Space Technology Experiments Program, part 2 [NASA-CP-10073-PT-2] p 14 N91-27177 Technology for the Future: In-Space Technology Experiments Program, part 2 [NASA-CP-10073-PT-2] p 14 N91-27178

NASA workshop on impact dam:	ane to	composites
[NASA-CP-10075]	p 21	N91-29240
Space Photovoltaic Research	and	Technology
Conference		
[NASA-CP-3121]		N91-30203
		nd Ground
Conference on Lightning and Static E [NASA-CP-3106-VOL-1]	p 35	N91-32599
Magnetoplasmadynamic Thruster W	•	
[NASA-CP-10084]	ρ 20	N92-10044
Control Center Technology Confe	rence f	Proceedings
[NASA-CP-10081]	p 14	N92-12010
Fourth Symposium on Chemical Evol	ution ar	nd the Ongin
and Evolution of Life [NASA-CP-3129]	p 41	N92-13588
Space Communications Technol	•	Conterence:
Onboard Processing and Switching	-	301110101100
(NASA-CP-3132)	p 25	N92-14202
Rotordynamic Instability Problems in	High-F	erformance
Turbomachinery, 1990		
[NASA-CP-3122]	•	N92-14346
Second CLIPS Conference Proce [NASA-CP-10085-VOL-1]		, volume 1 N92-16568
		volume 2
[NASA-CP-10085-VOL-2]		N92-16590
Beyond the Baseline 1991: Proceed		
Station Evolution Symposium. Volume	2: Sp	ace Station
Freedom, part 2 [NASA-CP-10083-VOL-2-PT-2]	n 18	N92-17348
Beyond the Baseline 1991: Proceed		
Station Evolution Symposium. Volume		
Freedom, part 2	-	
[NASA-CP-10083-VOL-1-PT-2]	p 18	
Beyond the Baseline 1991: Proceed Station Evolution Symposium. Volume		
Freedom, part 1	2. Jp	ace Station
[NASA-CP-10083-VOL-2-PT-1]	p 18	N92-17768
Visually Guided Control of Movemen	i	
[NASA-CP-3118]	p 39	N92-21467
The Compton Observatory Science [NASA-CP-3137]		
	p 49 ding	N92-21874 Technology
Conference	unig	, octationogy
[NASA-CP-10053]	p 16	N92-22001
Workshop on Squeezed States	and	Uncertainty
Relations [NASA-CP-3135]	- 46	
	p 46 nace	N92-22045 Operations
	pace	Operations
Fifth Annual Workshop on S Applications and Research (SOAR 199 [NASA-CP-3127-VOL-2]	pace (1), volu p 41	Operations ume 2 N92-22324
Fifth Annual Workshop on S Applications and Research (SOAR 199 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat	pace (1), volu p 41 (ional T	Operations ume 2 N92-22324 echnology
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v	pace 11), voli p 41 ional T olume	Operations ume 2 N92-22324 echnology
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, y [NASA-CP-3136-VOL-1]	pace (1), volu p 41 (ional T	Operations ume 2 N92-22324 echnology
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v	pace 11), voli p 41 ional T olume	Operations ume 2 N92-22324 echnology
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery	pace (1), voli p 41 (ional Tolume p 52 p 12 Worksh	Operations ume 2 N92-22324 echnology 1 N92-22423 N92-22510
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140]	pace 11), volid p 41 ional Tolume p 52 p 12 Worksh p 33	Operations ume 2 N92-22324 Schnology 1 N92-22423 N92-22510 nop N92-22740
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi	pace 11), volid p 41 ional Tolume p 52 p 12 Worksh p 33	Operations ume 2 N92-22324 Schnology 1 N92-22423 N92-22510 nop N92-22740
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1	pace 11), volid p 41 ional Tolume p 52 p 12 Worksh p 33	Operations ume 2 N92-22324 Schnology 1 N92-22423 N92-22510 nop N92-22740
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi	pace 11), voli p 41 ional T olume p 52 p 12 Worksh p 33 rst Po	Operations ume 2 N92-22324 echnology 1 N92-22423 N92-22510 iop N92-22740 st-Retrieval
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee	pace 11), volid p 41 ponal Tolume p 52 p 12 Worksh p 33 rst Po	Operations Jme 2 N92-22324 Schnology 1 N92-22423 N92-22510 IOD N92-22740 St-Retrieval N92-23280 Generation
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143]	pace 11), voling 41 ponal Tolume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42	Operations Jime 2 N92-22324 echnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24397
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space. Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulence	pace 11), voling 41 ponal Tolume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Model	Operations Jme 2 N92-22324 Schnology 1 N92-22423 N92-22510 nop-22740 st-Retrieval N92-23280 Generation N92-24397 eling
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088]	pace 11), voling 41 ponal Tolume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27	Operations Jme 2 N92-22324 Schnology 1 N92-22423 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 along N92-24514
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment	pace 11), voli p 41 ponal T olume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 lliigent	Operations Jime 2 N92-22324 Gennology N92-22423 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 John N92-24514 Processing
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment [NASA-CP-3138]	pace I1), voli p 41 ional T olume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 Higent p 52	Operations Jume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 st-Retneval N92-23280 Generation N92-24397 aling N92-24514 Processing N92-24987
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Sy	pace II), voli p 41 ponal T olume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 Higent p 52 rmposii	Operations ume 2 N92-22324 echnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24397 aling N92-24514 Processing N92-24987 um
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The Sederal Conference Mechanisms St [NASA-CP-3138]	pace 11), voli p 41 ional T olume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 Higent p 52	Operations Jime 2 N92-22324 Sechnology N92-22423 N92-22423 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 John N92-24514 Processing N92-24987 Jim N92-25067
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Sy	pace 11), volin p 41 p 41 p 52 p 12 Worksh p 33 rst Po p 52 p 12 p 67 Worksh p 33 rst Po p 52 p 14 p 75 Worksh p 33 p 52 p 75 p 75 Worksh p 75 Worksh p 75 p 75 Worksh p 75 Wo	Operations Jime 2 N92-22324 Sechnology N92-22423 N92-22423 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 John N92-24514 Processing N92-24987 Jim N92-25067
Fith Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] The 1991 NASA Aerospace Battery [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3088] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-10089] Computational Structures Technolog	pace 11), voli p 41 p 41 p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 Higent p 52 rmpose p 30 e p 10	Operations ume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24397 sling N92-24514 Processing N92-24987 um N92-25067 Areas N92-25712
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space. Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3134-PT-1] Workshop on Engineering Turbulenc [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Si [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-10089] Computational Structures Technolog Propulsion Systems	pace olin, volin p 41 ional T 52	Operations ume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 SI-Retrieval N92-23280 Generation N92-24397 sling N92-24514 Processing N92-24987 um N92-25067 Areas N92-25712 frames and
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steening Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Sy [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-10089] Computational Structures Technolog Propulsion Systems [NASA-CP-3142]	pace oill, voil on all 11	Operations ume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24397 aling N92-24514 Processing N92-245067 Areas N92-25712 frames and N92-25911
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The 7ederal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-10089] Computational Structures Technolog Propulsion Systems [NASA-CP-3142] LDEF: 69 Months in Space Fi	pace oill, voil on all 11	Operations ume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 SI-Retrieval N92-23280 Generation N92-24397 sling N92-24514 Processing N92-24987 um N92-25067 Areas N92-25712 frames and
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steening Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Si [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3148] Computational Structures Technolog Propulsion Systems [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3]	pace volume p 52 p 12	Operations ume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24397 sling N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-25712 frames and N92-25911 st-Retrieval N92-27083
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-3148] Computational Structures Technolog Propulsion Systems [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery	pace pale pale pale pale pale pale pale pal	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-25012 frames and N92-25911 st-Retrieval N92-27083 nop
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3140] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space. Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-3134] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Si [NASA-CP-3137] Workshop on Gnd Generation and F [NASA-CP-3147] Workshop on Gnd Generation and F [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3144] The 1990 NASA-CP-3131] The 1990 NASA Aerospace Battery [NASA-CP-3134] The 1990 NASA Aerospace Battery [NASA-CP-31319]	pace place p	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 noperation N92-22740 St. Retrieval N92-23280 Generation N92-24397 John N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-250712 frames and N92-25911 St. Retrieval N92-27083 nope N92-27130
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-10088] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Sy [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-3119] International Symposium on Magr	pace place p	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 noperation N92-22740 St. Retrieval N92-23280 Generation N92-24397 John N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-250712 frames and N92-25911 St. Retrieval N92-27083 nope N92-27130
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VCL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3140] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space. Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-3134] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Si [NASA-CP-3137] Workshop on Gnd Generation and F [NASA-CP-3147] Workshop on Gnd Generation and F [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3144] The 1990 NASA-CP-3131] The 1990 NASA Aerospace Battery [NASA-CP-3134] The 1990 NASA Aerospace Battery [NASA-CP-31319]	pace place p	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 noperation N92-22740 St. Retrieval N92-23280 Generation N92-24397 John N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-250712 frames and N92-25911 St. Retrieval N92-27083 nope N92-27130
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Sy [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-3119] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi	pace 111, volt p 111, volt p 111, volt p 112, volt p 113, volt p 114, volt p 1	Operations ume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Juling N92-24397 Juling N92-24514 Processing N92-24516 Processing N92-25067 Areas N92-25712 Irames and N92-25911 st-Retrieval N92-27130 Uspension N92-27721 Isolation N92-27721 Isolation
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3140] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineening Turbulence [NASA-CP-3143] Workshop on Engineening Turbulence [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Gind Generation and Fi [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3134] The 1990 NASA Aerospace Battery [NASA-CP-31319] International Symposium on Magri Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A	pace pale pale pale pale pale pale pale pal	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 st-Retrieval N92-23280 Generation N92-24397 aling N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-25712 frames and N92-25911 st-Retrieval N92-27130 uspension N92-27721 Isolation ons
Fith Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3140] LDEF: 69 Months in Space Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Sterring Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-10089] Computational Structures Technolog Propulsion Systems [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-31319] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-10094]	pace place p	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Seling N92-24514 Processing N92-24514 Processing N92-24514 N92-25067 Areas N92-25712 frames and N92-25712 st-Retrieval N92-277130 uspension N92-27721 Isolation N92-27721 Isolation N92-28436
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulenc [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Sy [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3147] Workshop on Grid Generation and F [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-3119] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-10094] Types and Characteristics of Data for	pace place p	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Seling N92-24514 Processing N92-24514 Processing N92-24514 N92-25067 Areas N92-25712 frames and N92-25712 st-Retrieval N92-277130 uspension N92-27721 Isolation N92-27721 Isolation N92-28436
Fith Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3140] LDEF: 69 Months in Space Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Sterring Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-10089] Computational Structures Technolog Propulsion Systems [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-31319] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-10094]	pace place p	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Seling N92-24514 Processing N92-24514 Processing N92-24514 N92-25067 Areas N92-25712 frames and N92-25712 st-Retrieval N92-277130 uspension N92-27721 Isolation N92-27721 Isolation N92-28436
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-VOL-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3136-VOL-1] Aeropropulsion 1987 [NASA-CP-3049] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineening Turbulenc [NASA-CP-3143] Workshop on Engineening Turbulenc [NASA-CP-3143] The Federal Conference on Inte Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms Si [NASA-CP-3138] Workshop on Grid Generation and F [NASA-CP-3142] Workshop on Grid Generation and F [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-31319] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-3153] NASA Workshop on future directions i	pace oill, voil on all oill oill oill oill oill oill oill	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Jaling N92-24514 Processing N92-24514 Processing N92-25067 Areas N92-25712 frames and N92-25712 frames and N92-277130 Uspension N92-27721 Isolation Ons N92-28436 gnetic Field N92-28620
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3140] LDEF: 69 Months in Space Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The 26th Aerospace Mechanisms Si [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-3152-PT-1] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-3153] NASA Workshop on future directions i and grid generation	pace pale pale pale pale pale pale pale pal	Operations Jume 2 N92-22324 Sechnology 1 N92-22423 N92-22510 nop N92-22740 St. Retrieval N92-23280 Generation N92-24397 Jump N92-24514 Processing N92-24514 Processing N92-25067 Area Section N92-25911 St. Retrieval N92-27130 N92-28436 Isolation Section N92-28620 Retrieval N92-
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3140] The 1991 NASA Aerospace Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3134-PT-1] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The Federal Conference on Intel Equipment [NASA-CP-3138] The 26th Aerospace Mechanisms S; [NASA-CP-3147] Workshop on Gind Generation and Fi [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-3152-PT-1] International Symposium on Magri Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-3153] NASA-CP-3153] NASA-CP-3153] NASA-CP-3153] NASA-CP-3153] NASA-CP-3153] NASA-CP-3153] NASA-CP-10092]	pace oll), volume p 41 tolume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 Higgent p 30 elated p 17 rst Po p 52 Worksh p 20 p 18 p 24 Geome	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Jaling N92-24514 Processing N92-24514 Processing N92-24514 N92-25067 Areas N92-25067 Areas N92-25011 st-Retrieval N92-27130 uspension N92-27721 Isolation ons N92-28436 gnetic Field N92-28620 pe modeling N92-29625
Fifth Annual Workshop on S Applications and Research (SOAR 198 [NASA-CP-3127-V0L-2] Technology 2001: The Second Nat Transfer Conference and Exposition, v [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3136-V0L-1] Aeropropulsion 1987 [NASA-CP-3140] LDEF: 69 Months in Space Battery [NASA-CP-3140] LDEF: 69 Months in Space Fi Symposium, part 1 [NASA-CP-3134-PT-1] Software Surface Modeling and Steering Committee [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] Workshop on Engineering Turbulence [NASA-CP-3143] The 26th Aerospace Mechanisms Si [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-3147] Workshop on Grid Generation and Fi [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3142] LDEF: 69 Months in Space. Fi Symposium, part 3 [NASA-CP-3134-PT-3] The 1990 NASA Aerospace Battery [NASA-CP-3152-PT-1] International Symposium on Magr Technology, part 1 [NASA-CP-3152-PT-1] International Workshop on Vi Technology for Microgravity Science A [NASA-CP-3153] NASA Workshop on future directions i and grid generation	pace oll), volume p 41 tolume p 52 p 12 Worksh p 33 rst Po p 52 Grid p 42 e Mode p 27 Higgent p 30 elated p 17 rst Po p 52 Worksh p 20 p 18 p 24 Geome	Operations Jime 2 N92-22324 Sechnology 1 N92-22423 N92-22510 N92-22510 N92-22740 st-Retrieval N92-23280 Generation N92-24397 Jaling N92-24514 Processing N92-24514 Processing N92-24514 N92-25067 Areas N92-25067 Areas N92-25011 st-Retrieval N92-27130 uspension N92-27721 Isolation ons N92-28436 gnetic Field N92-28620 pe modeling N92-29625

```
National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and
   Technology
  INASA-CP-31511
                                       p 24 N92-30263
    Electrical and chemical interactions at Mars Workshop.
  [NASA-CP-10093]
                                       p 50 N92-30302
    Sixteenth International Laser Radar Conference, part
  [NASA-CP-3158-PT-2]
                                      p 28 N92-31013
    Tenth Workshop for Computational Fluid Dynamic
   Applications in Rocket Propulsion, part 2
                                     p 27 N92-32245
  INASA-CP-3163-PT-21
    Tenth Workshop for Computational Fluid Dynamic
  Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p
                                     p 27 N92-32278
    Eighth DOD/NASA/FAA Conference on Fibrous
  Composites in Structural Design, part 1 [NASA-CP-3087-PT-1]
                                     p 22 N92-32513
    Eighth DOD/NASA/FAA Conference on Fibrous
  Composites in Structural Design, part 2 [NASA-CP-3087-PT-2]
                                      p 22 N92-32574
    Fourth Aircraft Intenor Noise Workshop
  INASA-CP-101031
                                     p 45 N92-32948
  Proceedings of the 23rd Annual Precise Time and Time
Interval (PTTI) Applications and Planning Meeting
                                      p 44 N92-33350
  [NASA-CP-3159]
    Orbital debris: Technical issues and future directions
  [NASA-CP-10077]
                                      p 49 N92-33478
CONNECTORS
    The 26th Aerospace Mechanisms Symposium
  [NASA-CP-3147]
                                      p 30 N92-25067
CONSTRAINTS
    The effect of acceleration versus displacement methods
  on steady-state boundary forces
  INASA-TP-32181
                                      p 30 N92-21457
CONSTRUCTION
   A self-zeroing capacitance probe for water wave
  measurements
  [NASA-RP-1278]
                                      p 36 N92-27930
    Software design for automated assembly of truss
  structures
  [NASA-TP-3198]
                                      p 43 N92-28375
CONTACT LENSES
    An investigation of microstructural characteristics of
  contact-lens polymers
  [NASA-TP-3034]
                                      p 21 N91-13492
CONTAMINATION
   Payload bay doors and radiator panels familiarization
  handbook
  [NASA-TM-107793]
                                      p 15 N92-20676
CONTOURS
   Prediction of effects of wing contour modifications on
  low-speed maximum lift and transonic performance for the
  EA-6B aircraft
  [NASA-TP-3046]
                                       p.4 N91-10902
CONTROL EQUIPMENT
    The Federal Conference on Intelligent Processing
  Equipment
  [NASA-CP-3138]
                                      p 52 N92-24987
    International Symposium on Magnetic Suspension
  Technology, part 1
[NASA-CP-3152-PT-1]
                                      p 18 N92-27721
CONTROL STABILITY

A methodology for computing uncertainty bounds of
  multivariable systems based on sector stability theory
  concepts
  [NASA-TP-3166]
                                      p 13 N92-21410
CONTROL SYSTEMS DESIGN
   Research in Structures, Structural Dynamics and
  Materials, 1990
  [NASA-CP-3064]
                                      p 29 N91-10301
   Design of control laws for flutter suppression based on
  the aerodynamic energy concept and comparisons with other design methods
  [NASA-TP-3056]
                                      p 29 N91-10328
    NASA Formal Methods Workshop, 1990
  [NASA-CP-10052]
                                      p 42 N91-17559
    The 5th Annual NASA Spacecraft Control Laboratory
  Experiment (SCOLE) Workshop, part 1
  [NASA-CP-10057-PT-1]
                                      p 16 N91-18186
    The 5th Annual NASA Spacecraft Control Laboratory
  Experiment (SCOLE) Workshop, part 2
  [NASA-CP-10057-PT-2]
                                      p 17 N91-19122
    Aeropropulsion 1991
  [NASA-CP-10063]
                                      p 12 N91-20086
   A controls engineering approach for analyzing airplane
  input-output characteristics
                                      p 12 N91-20128
  INASA-TP-30721
    Aerospace Applications of Magnetic Suspension
  Technology, part 2
  [NASA-CP-10066-PT-2]
                                      p 17 N91-21203
   Rigid-body-control subsystem sizing for an Earth science
```

geostationary platform [NASA-TP-3087]

p 17 N91-22302

Fourth NASA Workshop on Computational Control of	CORIOLIS EFFECT	CRYSTALLOGRAPHY
Flexible Aerospace Systems, part 1	Inertial oscillation of a vertical rotating draft with	Stiffness and strength tailoring in uniform space-filling
[NASA-CP-10065-PT-1] p 17 N91-22307	application to a supercell storm [NASA-TP-3230] p 36 N92-33482	truss structures [NASA-TP-3210] p 30 N92-24546
Guidance, navigation, and control subsystem equipment selection algorithm using expert system methods	CORRECTION	CULTURE TECHNIQUES
[NASA-TP-3082] p 42 N91-25624	Comparison of a two-dimensional adaptive-wall	Analysis of gravity-induced particle motion and fluid
Application and flight test of linearizing transformations	technique with analytical wall interference correction	perfusion flow in the NASA-designed rotating
using measurement feedback to the nonlinear control	techniques	zero-head-space tissue culture vessel
problem (NASA-TP-3154) p.12 N91-30154	{NASA-TP-3132} p 7 N92-20494 CORROSION	[NASA-TP-3143] p 24 N92-13340
[NASA-TP-3154] p 12 N91-30154 On the formulation of a minimal uncertainty model for	Electrochemical studies of corrosion inhibitors	Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as
robust control with structured uncertainty	[NASA-TP-3066] p 22 N91-17208	influenced by gravity
(NASA-TP-3094) p 13 N92-10027	CORROSION PREVENTION	[NASA-TP-3200] p 40 N92-28897
Multidisciplinary optimization of controlled space	Electrochemical studies of corrosion inhibitors	CURING
structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087	{NASA-TP-3066} p 22 N91-17208 COSMIC DUST	A statistical companson of two carbon fiber/epoxy
International Symposium on Magnetic Suspension	The Interstellar Medium in External Galaxies: Summanes	fabrication techniques (NASA-TP-3179) p.22 N92-20950
Technology, part 2	of contributed papers	CURVATURE
[NASA-CP-3152-PT-2] p 18 N92-27788	[NASA-CP-3084] p 49 N91 14100	Planform curvature effects on flutter characteristics of
Ongoing Progress in Spacecraft Controls [NASA-CP-10099] p 19 N92-28730	Interstellar Dust. Contributed Papers	a wing with 56 deg leading-edge sweep and panel aspect
CONTROL THEORY	[NASA-CP-3036] p 48 N91-14897	ratio of 1.14
Design of control laws for flutter suppression based on	Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life	[NASA-TP-3116] p 11 N92-13054 CURVE FITTING
the aerodynamic energy concept and comparisons with	[NASA-CP-3129] p 41 N92-13588	Calculations and curve fits of thermodynamic and
other design methods [NASA-TP-3056] p 29 N91-10328	COST ANALYSIS	transport properties for equilibrium air to 30000 K
Joint University Program for Air Transportation	Resource envelope concepts for mission planning	(NASA-RP-1260) p 26 N92-11265
Research, 1989-1990	[NASA-TP-3139] p 15 N91-29209	Trajectory fitting in function space with application to
[NASA-CP-3095] p 1 N91-19024	COUPLED MODES The effect of acceleration versus displacement methods	analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747
Aerospace Applications of Magnetic Suspension	on steady-state boundary forces	CURVES po 192-30747
Technology, part 2 [NASA-CP-10066-PT-2] p 17 N91-21203	(NASA-TP-3218) p 30 N92-21457	Monograph on propagation of sound waves in curved
Fourth NASA Workshop on Computational Control of	COWLINGS	ducts
Flexible Aerospace Systems, part 1	A simplified method for thermal analysis of a cowl leading	(NASA-RP-1248) p 44 N91-15848
[NASA-CP-10065-PT-1] p 17 N91-22307	edge subject to intense local shock-wave-interference heating	
The 1991 Goddard Conference on Space Applications of Artificial Intelligence	[NASA-TP-3167] p 27 N92-24797	D
[NASA-CP-3110] p 43 N91-22769	CRACK PROPAGATION	_
A methodology for computing uncertainty bounds of	Analysis and prediction of Multiple-Site Damage (MSD)	DAMAGE
multivariable systems based on sector stability theory	fatigue crack growth	An examination of the damage tolerance enhancement
concepts [NASA-TP-3166] p 13 N92-21410	[NASA-TP-3231] p 31 N92-31279	of carbon/epoxy using an outer lamina of spectra (R) [NASA-TP-3160] p.21 N92-11142
[NASA-TP-3166] p 13 N92-21410 Visually Guided Control of Movement	CRACK TIPS Applications of FEM and BEM in two-dimensional	[NASA-TP-3160] p. 21 N92-11142 Analysis and prediction of Multiple-Site Damage (MSD)
[NASA-CP-3118] p 39 N92-21467	fracture mechanics problems	fatigue crack growth
CONTROLLERS	[NASA-TP-3277] p 31 N92-31280	[NASA-TP-3231] p 31 N92-31279
Proceedings of the Second Joint Technology Workshop	CRACKING (FRACTURING)	DAMAGE ASSESSMENT
on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811	Analysis and prediction of Multiple-Site Damage (MSD)	Cellular track model of biological damage to mammalian
Application and flight test of linearizing transformations	fatigue crack growth [NASA-TP-3231] p 31 N92-31279	cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981
using measurement feedback to the nonlinear control	CRASHES	DATA ACQUISITION
problem		Outgassing data for selecting spacecraft materials.
INIACA TROUCAL	Effect of crash puise shape on seat stroke requirements	Outgassing data for sciousing spacecian materials.
[NASA-TP-3154] p.12 N91-30154	for limiting loads on occupants of aircraft	revision 2
International Workshop on Vibration Isolation	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p.24 N92-28436 CONVECTION	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite	revision 2 [NASA-RP-1124-REV-2] p.21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p.32 N91-15615
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS	revision 2 [NASA-RP-1124-REV-2] p.21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p.32 N91-15615 Three-dimensional laser window formation
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads	revision 2 [NASA-RP-1124-REV-2] p.21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p.32 N91-15615
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT)	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE	revision 2 [NASA-RP-1124-REV-2] p.21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p.32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p.37 N91-19711 International exploration of Mars A special
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT)	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 International exploration of Mars A special bibliography
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Faiture behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208	revision 2 [NASA-RP-1124-REV-2] p.21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p.32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p.37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p.49 N91-24965 Earth observations and global change decision making.
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 CONVERGENT-DIVERGENT NOZZLES	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Faiture behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1293] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Faiture behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1209] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 CONVERGENT-DIVERGENT NOZZLES	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p 4 N91-14316 Static thrust-vectoring performance of nonaxisymmetric	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 International exploration of Mars: A special bibliography [NASA-SP-7091] p. 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p. 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation safety reporting
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of after-body/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p 4 N91-14316 Static thrust-vectoring performance of nc-haxisymmetric convergent-divergent nozzles with post-exit yaw varies	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annualar cascade of high turning core turbine vanes	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p. 8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p. 4. N91-14316 Static thrust-vectoring performance of nc-haxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p. 5. N91-21059	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1293] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1994 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of after-body/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p 4 N91-14316 Static thrust-vectoring performance of nc-haxisymmetric convergent-divergent nozzles with post-exit yaw varies	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Faiture behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3640] p.4. N91-14316 Static thrust-vectoring performance of nc.haxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p.5. N91-21059 Aeropropulsive characteristics of cented twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5. N91-22069	for limiting loads on occupants of aircraft (NASA-TP-3126) p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads (NASA-RP-1239) p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft (NASA-TP-3126) p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 (NASA-RP-1256) p 32 N92-10208 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks (NASA-TP-3069) p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes (NASA-TP-3522) p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 International exploration of Mars: A special bibliography [NASA-SP-7091] p. 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p. 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 DATA COMPRESSION
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p. 8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p. 4. N91-14316 Static thrust-vectoring performance of nc.haxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p. 5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3065] p. 5. N91-22069 Static performance of a cruciform nozzle with multiaxis	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Faiture behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-RP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicoptor fusellages	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making. A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p 4 N91-14316 Static thrust-vectoring performance of nc.naxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p 5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p 5 N91-22069 Static performance of a crucitorm nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p. 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p. 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 Space and Earth Science Data Compression Workshop
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p. 8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p. 4. N91-14316 Static thrust-vectoring performance of nc.haxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p. 5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3065] p. 5. N91-22069 Static performance of a cruciform nozzle with multiaxis	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1266] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-29980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making. A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p 4 N91-14316 Static thrust-vectoring performance of nonaxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3086] p 5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3080] p 5 N91-22069 Static performance of a cruciform nozzle with multitaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1293] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p. 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p. 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p. 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.4 N91-14316 Static thrust-vectoring performance of nc-axisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p.5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5 N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p.7 N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3188] p.9 N92-34193	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1266] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-29980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p. 8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afferbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p. 4. N91-14316 Static thrust-vectoring performance of nc.haxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p. 5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3080] p. 5. N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3181] p. 7. N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 9. N92-34193 COOLANTS	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1293] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1265] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-RP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-RP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-RP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933 DATA INTEGRATION
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.4 N91-14316 Static thrust-vectoring performance of nc-axisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p.5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5 N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p.7 N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3188] p.9 N92-34193	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1994 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-TP-3155] p 23 N91-30318	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p. 8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afferbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-360] p. 4. N91-14316 Static thrust-vectoring performance of nc.haxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p. 5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3080] p. 5. N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3180] p. 7. N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 9. N92-34193 COOLANTS Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509	for limiting loads on occupants of aircraft (NASA-TP-3126) p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads (NASA-RP-1239) p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft (NASA-RP-3126) p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes (NASA-TP-3252) p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages (NASA-TP-3233) p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium (NASA-CP-3113) p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys (NASA-TP-3155) CRYSTAL GROWTH	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] DATA INTEGRATION Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 DATA LINKS
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 4 N91-14316 Static thrust-vectoring performance of nonaxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p 5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p 5 N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3188] p 7 N92-23095 COOLANTS Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 COOLING	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1266] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-RP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-RP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-RP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-TP-3155] CRYSTAL GROWTH Long-term life testing of Geostationary Operational	revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p. 49 N91-24965 Earth observations and global change decision making. A special bibliography, 1991 [NASA-SP-7092] p. 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p. 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] DATA INTEGRATION Multisource Data Integration in Remote Sensing [NASA-CP-3099] p. 32 N91-15615 DATA LINKS Structural factoring approach for analyzing stochastic
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CNNERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3640] p.4 N91-14316 Static thrust-vectoring performance of no-haxisymmetric convergent-divergent nozzles with post-exit yaw varies [NASA-TP-3085] p.5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5 N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p.7 N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3180] p.9 N92-34193 COOLANTS Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.9 N91-22509 COOLING [Newstigation of microstructural changes in	for limiting loads on occupants of aircraft (NASA-TP-3126) p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads (NASA-RP-1239) p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft (NASA-RP-3126) p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes (NASA-TP-3252) p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages (NASA-TP-3233) p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium (NASA-CP-3113) p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys (NASA-TP-3155) CRYSTAL GROWTH	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933 DATA INTEGRATION Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 DATA LINKS Structural factoring approach for analyzing stochastic networks
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 4 N91-14316 Static thrust-vectoring performance of nonaxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p 5 N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p 5 N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3188] p 7 N92-23095 COOLANTS Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 COOLING	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1293] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1265] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fusilages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-TP-3155] p 23 N91-30318 CRYSTAL GROWTH Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-CP-3099] p 32 N91-15615 DATA LINKS Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3640] p.4. N91-14316 Static thrust-vectoring performance of nc-axisymmetric convergent-divergent nozzles with post-exit yaw varies [NASA-TP-3085] p.5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5. N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p.7. N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3180] p.9. N92-34193 COOLANTS Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.9. N92-32599 COOLING Investigation of microstructural changes in polystherether-ketone films at cryogenic temperatures by positron lifetime spectroscopy [NASA-TP-3064] p.2. N91-18216	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1236] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-RP-1256] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter (uselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N91-30318 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N92-20063 CRYSTAL LATTICES Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N92-20063	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] p 16 N92-33933 DATA INTEGRATION Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 DATA LINKS Structural factoring approach for analyzing stochastic networks
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p. 8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p. 26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p. 4. N91-14316 Static thrust-vectoring performance of nc-basisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p. 5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p. 5. N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3060] p. 7. N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3060] p. 7. N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3100] p. 9. N92-34193 COOLING Investigation of microstructural changes in polyetherether-ketone films at cryogenic temperatures by positron lifetime spectroscopy [NASA-TP-3064] p. 21. N91-18216	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1236] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N91-30318 CRYSTAL GROWTH Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps [NASA-TP-3155] p 23 N91-30318	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-RP-3139] p 16 N92-33933 DATA INTEGRATION Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 DATA LINKS Structural factoring approach for analyzing stochastic networks [NASA-TP-3059] p 43 N91-18753 Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143
International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] CONVECTION Direct simulation of high-speed mixing layers [NASA-TP-3186] p.8. N92-30909 CONVECTIVE HEAT TRANSFER Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.26. N91-22509 CONVERGENT NOZZLES Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9. N92-34193 CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] CONVERGENT-DIVERGENT NOZZLES Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3640] p.4. N91-14316 Static thrust-vectoring performance of nc-axisymmetric convergent-divergent nozzles with post-exit yaw varies [NASA-TP-3085] p.5. N91-21059 Aeropropulsive characteristics of canted twin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5. N91-22069 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p.7. N92-23095 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3180] p.9. N92-34193 COOLANTS Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p.9. N92-32599 COOLING Investigation of microstructural changes in polystherether-ketone films at cryogenic temperatures by positron lifetime spectroscopy [NASA-TP-3064] p.2. N91-18216	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053 CRASHWORTHINESS Failure behavior of generic metallic and composite aircraft structural components under crash loads [NASA-RP-1239] p 29 N91-13751 Effect of crash pulse shape on seat stroke requirements for limiting loads on occupants of aircraft [NASA-RP-1236] p 30 N92-18053 CREW PROCEDURES (INFLIGHT) Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 [NASA-RP-1256] p 32 N92-10208 CRITICAL PATH METHOD Structural factioning approach for analyzing stochastic networks [NASA-RP-1256] p 43 N91-18753 CRITICAL VELOCITY Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 CROSS SECTIONS Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter (uselages [NASA-TP-3233] p 8 N92-30394 CRYOGENICS The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N91-30318 CRYSTAL DEFECTS Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N92-20063 CRYSTAL LATTICES Equivalent crystal theory of alloys [NASA-RP-1273] p 23 N92-20063	revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 DATA BASES Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making: A special bibliography, 1991 [NASA-SP-7092] p 32 N91-30588 Continuous improvement: A bibliography with indexes, 1989-1991 [NASA-SP-7097] p 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p 10 N91-70436 DATA COMPRESSION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 The effects of video compression on acceptability of images for monitoring life sciences experiments [NASA-TP-3239] DATA INTEGRATION Multisource Data Integration in Remote Sensing [NASA-CP-3099] p 32 N91-15615 DATA LINKS Structural factoring approach for analyzing stochastic networks [NASA-TP-3069] p 43 N91-18753 Flight tests with a data link used for air traffic control information exchange

DATA MANAGEMENT SUBJECT INDEX

Combination of the National Control (1998) and the Control (1998) an			
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subsection to compression bearings of minimum and Technologists (MASA-T2219) p. 10 92-21459 ACARDOCESSING LANGA-T2219 p. 20 40-22175 ACARDOCESSING LAN		• • • • • • • • • • • • • • • • • • • •	-
Page 21 Page 2009 Pa			
Method (1997) 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997 1997	•	(NASA-TP-3173) p 21 N92-20679	Parametric study of afterbody/nozzle drag on twin
SAGE 1 data faver's goods post Annabase (Company Annabase) (Company An			
DAMA REQUERTION DAMA PROJECTION DAMA PROJE			
MASA-RESE PROGRAM Search And Search Ministry Company Regions (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985 and NOAA 9 sheetons for Management Program (1) 1985	[NASA-RP-1275] p 34 N92-33097		
Processor Research Program Review 30 No.3 1950		{NASA-CP-10050-PT-1} p 9 N91-11682	
JANAS-Ch-1261 P.3 No 13265 P.3			
Massin description and in-light colerations of ERE state (1994) and 1994 an			Applications of a direct/iterative design method to
Evaluation of code direction instruments and present in the control of code direction of code direction instruments and present in the code of	Mission description and in-flight operations of ERBE		
DATA PROJUCTION Types and Characteristics of Data for Geometric programs of English (PASA-Pasa) and part of Section Programs of English (PASA-Pasa) and Pasa-Pasa) and Pasa-Pasa-Pasa-Pasa-Pasa-Pasa-Pasa-Pasa	· · · · · · · · · · · · · · · · · · ·		
DATA REDUCTION Types and Characteristics of Data for Geomagnetic Field (MASA-CP135) ### PROPERTY OF THE PRO			
### OPPRINCE OF THE CONTRIBUTION OF THE PARTY OF THE CONTRIBUTION			· · · · · · · · · · · · · · · · · · ·
Misson escreption and in-light operations of ERBE instruments on ERBS, NOAL 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 9, and NOAL 10 misson interests on ERBS in No.A. 10 misson interests on Interest on Interests on Interest on Interests on Interests on Interests on Interest on Interest on Interests on Interests on Interests on Interests on Interests on Interests on Interest on Interests o			
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DATA SHOTTONIAN BADDITION BY THE STATE HIGH data straining and straining processing special processing of the Second John Technology was also performance of controlled-distance stated (INSA-R-79227) p. 16-190-26667 [INSA-R-79227] p. 16-190-26667 [INSA-R-79227] p. 17-190-26667 [INSA-R-79227] p. 10-190-26667 [INSA-R-79228] p. 10-190-26667 [I		· · · · · · · · · · · · · · · · · · ·	
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State stimation applications in serical high-data analysis. Austria Familia of SARA P. 1998; page analysis of National Processing of the Sacratic Processing Processing Processing of the Sacratic Processing Processin			
DATA SYSTEMS DATA SYSTEMS DATA SYSTEMS DATA SYSTEMS DATA SYSTEMS P 10 N92-1968 DATA SYSTEMS P 10 N92-29667 DATA SYSTEMS P 10 N92-29667 DATA SYSTEMS P 10 N92-29667 DATA SYSTEMS DATA SYSTEMS DATA TRAMBUSSON INASA-P-29227 P 16 N92-26667 DATA SYSTEMS P 10 N92-2149 DATA SYSTEMS DATA TRAMBUSSON INASA-P-29227 DATA TRAMBUSSON INASA-P-29228 INASA-P-29229 INASA-C-29669 INASA-P-29229 INASA-C-29669 INASA-P-29229 DATA SYSTEMS DATA TRAMBUSSON INASA-P-29229 INASA-C-29669 INASA-P-29229 INASA-C-29669 INASA-P-29229 INASA-C-29669 INASA-P-29229 INASA-C-29669 INASA-P-29229 INASA-P-29229 INASA-P-29229 INASA-P-29669 INASA-P-29229 INASA-P			
CIMAS APP 1262 p. 10 N91-1968 DATA THANSMISSON P. 10 N92-1969 DATA THANSMISSON			
Small Exposer Data System ML STO-1773 (See onto July 16 NB2-2867) JAY-TRAKSHISSION Agn. Readouth, rule Frame Rate Video Technology (INASA-CP-2006) P. 27 NB1-16574 Fight dock benefits of integrated data in the commence of the commence		compared with original double-circular-arc stator	[NASA-TP-3273] p 31 N92-33476
INASA TP 3221 p. 16 N92-2667 DATA TRANSMISSION INASA TP 32219 p. 16 N92-2667 DATA TRANSMISSION INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2667 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communication. INASA CP 30219 p. 19 N92-2679 Fight deck benefits of integrated data into communic	DATA SYSTEMS	· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·
TIMASA FF 28221 p. 16. N82-2869 DATA TRANSHISSION High Reachdord, high Frame Palle Valde Technology Part Pall Pall Pall Pall Pall Pall Pall Pal	· · · · · · · · · · · · · · · · · · ·		
DATA TRANSMISSION High Resolution High Plane Bate Video Technology (NASA-CP-3006) p. 27 N31-1574 (NASA-17-2019) p. 10 N82-21459 Large space structures and systems in the space station (NASA-17-2019) p. 10 N82-21459 (NASA-CP-3005) p. 10 N82-21459 (NASA-CP-3005) p. 10 N82-21459 (NASA-17-2019) p. 10 N82-21459 (N	= =		
Might Resolution. High Frame Rate Video Technology MINSAC-Place Page 10 Nig-2148 Fight deck benefits of integrated data im. NISAS-179.1291 Large space structures and dystems in the space station as A biologograph with indivisis symplement (2) p. 10 Nig-2149 Large space structures and dystems in the space station on Neural Networks and Fuzzy Cogic volume 2 p. 10 Nisas-179.1291 DECISION MAKING Proceedings of the Second Joint Technology Winshood on Neural Networks and Fuzzy Cogic volume 2 p. 43 Nisas-179.1291 DECINION Control of the Company of			
INASA F7-3219 p. 10 NS2-1457 MASA F7-3219 p. 10 NS2-1459 Proceedings of the Second Joint Technology Workshop Proceedings of the Second Joint T	High Resolution, High Frame Rate Video Technology	· · · · · · · · · · · · · · · · · · ·	Correlation and prediction of dynamic human isolated
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NASA-TP-3029 p. 10 NS2-21450 Large space structures and systems in the space state of the Second Sunt Technology Workshop on Review Proceedings of the Second Joint Technology Workshop on New Proceedings of the Second Joint Technology Workshop on New Proceedings of the Second Joint Technology Workshop on New Proceedings of the Second Joint Technology Workshop on New Proceedings of the Second Joint Technology Workshop on New Proceedings of the Second Joint Technology Workshop on Second Joint Tec		•	
Large space sincultures and systems in the space station of a A bibloogensy with indexis supplement 0.3 (PASA.CP-10028) p. 18 N3-22317 p. 19 N3-22317 p. 19 N3-22318 p. 18 N3-22318 p. 18 N3-22318 p. 18 N3-22318 p. 19			
per Abbiography with indexes issupplement (3) INSAS-SP-305(30) 19 18 N82-2397 DECISION MAXING Second Joint Technology Workshop Proceedings of the Second Joint Technology Wor			
wind turner state and tree-light investigation of broseedors of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic volume 2 in 43 Nat-20811 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic volume 2 in 43 Nat-20811 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic volume 2 in 43 Nat-20811 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic volume 1 in National Proceedings of the Second Joint Technology Workshop on Second Selection for Long Qualities (Company of the Second Joint Technology Workshop on Second			
high-angle-of attack stability and control characteristics of a new fabrication and supersons special numbers and Fuzzy Logic volume 1 [NASA-IP-3194] p. 7 N92-257- [NASA-IP-3194] p. 7 N92-25			
on Neural Networks and Fuzzy Logic, volume 2 PNASA CP-10061 Vol.2 p.43 N91-2081 Proceedings of the Second Join Technology Workshop on Neural Networks and Fuzzy Logic, volume 1 PNASA CP-10061 Vol.2 p.43 N91-2081 PNASA CP-20151 p.43 N91-2081 PNASA CP-20151 p.45 N91-1057 PEFLECTION Effect of Immeriative and gap opening rate on the Institute solid rocket booster C-ming (NASA CP-20151) p.15 N92-20154 PEFLECTION Effect of Immeriative and gap opening rate on the Institute solid rocket booster C-ming (NASA CP-20151) p.15 N92-20154 PEFLECTION Effect of Immeriative and gap opening rate on the Institute solid rocket booster C-ming (NASA CP-20151) p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the aerocyvariance effects of acrost ground discingrant-sing fluids INASA CP-20151 p.15 N92-20154 PEFLECTION Lewis king research turnal test of the			
INASA-CP-10061-VQL-12 p.d. Nin-12081 Proceedings of the Second John Technology Workshop on Noural Networks and Fuzzy Logic, volume 1 JNASA-CP-10081-VQL-12 p.d. Nin-12078 p. Nin-12079 DECONDITIONING CONDITIONING CO			
A nozzle internal performance prediction method (NASA-TP-3217) p. 8 N92-3255 (NASA-TP-3217) p. 9 N92-32		· · · · · · · · · · · · · · · · · · ·	Development of an integrated aeroservoetastic analysis
INASA-CP-3061-VDL-13 p. 36 N91-21778 Detected it imperature and gap opening rate on the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism global control of the aero-kname effects of arrestal ground demographism of the aero-kname effects of a present eff			
DECONDITIONING Workshop on Exercise Prescription for Long-Duration Space Flight (NASACP-3051) p. 36. N91-10574 DEFLECTION Effect of short-firm exposure to stereoscopic firmer-dimensional flight displays on real-world depth precipion (INSA-RT-3172) p. 11. N92-13065 DEFLECTION Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster. Oring materials (INSA-RT-3172) p. 23. N92-27194 DEFLICION (INSA-RT-3172) p. 10. N92-2729 DE			
Effect of short-term exposure to stereoscope three-dimensional flight displays on real-world dribby perception (NASA-P2051) p. 36. N91-10542 presented on the residency of candidate solid rocket boster Conginaterials (NASA-P2051) p. 23. N92-27194 pt. (NASA-P3226) p. 24. N91-1364) pt. (NASA-P3226) p. 25. N92-27294 pt. (NASA-P3227) p. 25. N92-2729		•	
[NASA.FP.3051] p. 36 N91-10574 Effect of temperature and gap opening rate on the selency of candidate sold rocket booser Cving materials (NASA.FP.3226) p. 23 N92-27194 DEICING Lewis long research turnel test of the aeroJynamic effects of avoratify ground desiring/rathering fluids (NASA.FP.3226) p. 10 N82-30395 DEITA WINGS NASA.FP.3035 p. 4 Septiation with performance of activation symposium of the selection symposium of the selection of the selection symposium of the selection symposium of the selection of		Effect of short-term exposure to stereoscopic	measurements to reconstruct tethered satellite skiprope
DEFLECTION Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster C-ing materials [NASA.TP-3226] p. 23 N92;27194 p. 18 N92-1326] p. 24 N92-1326 p. 18 N9			
Ebect of temperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring materials. Page 1918 (Page 1918) and the resiliency of candidate solid rocket booster O-ring materials. Page 291 (Page 1918) and the resiliency of candidate solid rocket booster O-ring materials. Page 291 (Page 2918) and the resiliency of candidate solid rocket booster of original sections of the resiliency of candidate solid rocket booster of cardidate solid rocket booster field solid rocket booster fi			
Thermal-distortion analysis of a Spacecraft box truss in gostationary orbit [NASA-TP-3226] p. 23 N92-27194 DEFINE UP PARAMETER SYSTEMS Lowis king research tunnel test of the aerocynamic effects of arcraft ground desing/anti-sing fluds (NASA-TP-3034] p. 10 N92-3056 DEFTA WINGS Navier Stokes and Sulver solutions for les-side flows over supersonic delta wings. A correlation with experiment (NASA-TP-3035) p. 4 N91-18030 Detailed flow field measurements over a 75-deg swept delta wing. P. 4 N91-18030 Potential flow field measurements over a 75-deg swept delta wing. NASA-TP-3035) p. 4 N91-18030 Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subscinic transfortic, and supersonic Specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subscinic transfortic, and supersonic Specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subscinic transfortic, and supersonic Specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subscinic transfortic, and supersonic Specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subscinic transfortic, and supersonic Specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at supersonic specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at supersonic specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at supersonic specials (NASA-TP-3114) p. 7 N92-2007 Mind tunnel investigation of the interaction and solution in the fact that the fact that the fact th		•	
maternals [NASA-TP-3225] p. 23 N92-27194 DEICING Lewis stong research tunnel test of the aeroJynamic effects of arcraft ground deroing/anti-stong fluids [NASA-TP-3238] p. 10 N92-39395 DELTA WINGS Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment. [NASA-TP-3035] p. 4 N91-18401 Detailed flow field measurements over a 75 deg swept detta wing. [NASA-TP-3035] p. 4 N91-18401 Detailed flow field measurements over a 75 deg swept detta wing. [NASA-TP-3035] p. 4 N91-18402 Wind Tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subscince. Iransonic, and supersonic speeds. [NASA-TP-3141] p. 6 N92-1294 Influence of a fold gametry on detta wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-31319] p. 7 N92-20038 [NASA-TP-3119] p. 7 N92-20037 DEEMANETE/TSTRIBUTION Similation of real-gas effects on pressure distinbutions for aero-arsist flight exponention (MASA-TP-3117) p. 17 N92-13055 [NASA-TP-3119] p. 27 N92-20677 DEETH Effect of short-term exposure to stereoscopic three dimensional flight displays on real-world details perception. [NASA-TP-3117] p. 11 N92-13055 [= · · · - ·	
DECING Lows cong research turnel test of the aerolynamic affects of arcraft ground descing/anti-cong fluids INASA TP-328] DELTA WINGS Navar-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment INASA-TP-3038] Detailed flow-field measurements over a 75 dag swelf delta wing. INASA-TP-3038] Detailed flow-field measurements over a 75 dag swelf delta wing. INASA-TP-3038] Wind turnel investigation of the interaction and breakdown characteristics of slender wing vortices at subsonic transforic, and supersonic speeds. INASA-TP-3104] InASA-TP-3105] DEMAN TP-3105] DEMAN TP	materiais	geostationary orbit	
Elect a Winds DELTA WINGS DELTA WINGS Navier Stokes and Euler solutions for lee-side flows over supersonic delta wings. A cordiation with experiment. (NASA-TP-3338) Detailed flow field measurements over a 75-deg swept delta wing [NASA-TP-3358] Detailed flow field measurements over a 75-deg swept delta wing [NASA-TP-3358] Navier Stokes and Euler solutions for lee-side flows over supersonic delta wings. A cordiation with experiment. (NASA-TP-3358) Detailed flow field measurements over a 75-deg swept delta wing [NASA-TP-3358] Navier Stokes and Euler solutions for lee-side flows over a 75-deg swept delta wing [NASA-TP-3358] NASA-TP-3359] NASA-TP-3357 Detailed flow field measurements over a 75-deg swept delta wing [NASA-TP-3357] NASA-TP-3357 Navier Stokes and Euler solutions over a 75-deg swept delta wing [NASA-TP-3357] NASA-TP-3357 Navier Stokes and Euler solutions of the interaction and breakfown characteristics of siender wing vortices at subsonic transport, and supersonic speeds [NASA-TP-3357] NASA-TP-3357] NASA-TP-3357 Navier Stokes and Euler solutions of the interaction and breakfown characteristics of siender wing vortices at subsonic transport, and supersonic speeds [NASA-TP-3357] NASA-TP-3357] NASA-TP-3357 Navier Stokes and Euler solutions of the interaction and breakfown characteristics of siender wing vortices at subsonic transport, and supersonic speeds [NASA-TP-3357] NASA-TP-3357] NASA-TP-3357 NASA-TP-33		· · · · · · · · · · · · · · · · · · ·	
station Evolution Symposium Volume 2. Space Station [NASA-TP-328] p. 10. N82-3095 DELTA WINGS Never-Stokes and Euler solutions for lee-side flows over super-sonic celtal wings. A correlation with experiment: [NASA-TP-3035] p. 4. N81-13401 Detailed flow-field measurements over a 75 deg swept detta wing. P. 4. N81-13401 Detailed flow-field measurements over a 75 deg swept detta wing. [NASA-TP-3035] p. 4. N81-13401 New of tunnel investigation of the interaction and breakdown characteristics of siender wing vortices at subsonic transforic, and supersonic speeds. [NASA-TP-3142] p. 6. N82-1294 Influence of a fort geometry on detta wing leading dege vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3145] p. 7. N82-2038 [NASA-TP-3157] p. 25. N82-11252 DENSITY DISTRIBUTION The 23 to 300 if demagnistization resistance of sameum-cobalt permanent magnets. [NASA-TP-3157] p. 27. N82-2037 [NASA-TP-3157] p. 27. N92-2038 DEMANETIZATION The 23 to 300 if demagnistization resistance of sameum-cobalt permanent magnets. [NASA-TP-3157] p. 27. N92-2038 DEMANCE (Station Evolution Symposium Volume 2. Space Station freedom and surport of sameum and the solution in the interaction and phrash to processing. [NASA-TP-3157] p. 4 N91-1865 DEMANCE (Station Evolution Symposium Volume 2. Space Station freedom and the space station solution in the space station of contact systems. [NASA-TP-3167] p. 4 N91-1865 DEMANCE (Station Evolution Symposium Volume 2. Space Station freedom interval interval of certain surport in the space station of contact systems. [NASA-TP-3167] p. 4 N91-186 DISTRIBUTION Saction and supersonic speeds (Instantion and supersonic speeds) [NASA-TP-3167] p. 17. N91-293 DOCUMENTS Large space structures and systems in the space station of magnetic speeds (Instantion and supersonic speeds) [NASA-TP-3167] p. 17. N91-293 DEMANCE (Station Evolution Symposium and supersonic speeds) [NASA-TP-3167] p. 17. N91-293 DOCUMENTS Each observations and global speed decision makes and systems in the space station			
[NASA-TP-1238] p. 10. N92-30395 Navier-Stokes and Euler solutions for lee-side flows over supersonic detail wings. A correlation with experiment. (NASA-TP-0305) p. 19. N91-14801 Detailed flow-field measurements over a 75-deg swept detail wing (NASA-TP-0305) p. 4. N91-1801 Detailed flow-field measurements over a 75-deg swept detail wing (NASA-TP-0305) p. 4. N91-1800 Wind turnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic transport, and supersonic speeds. (NASA-TP-03114) p. 6. N92-12994. (Influence of a fort geometry on detail wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds. (NASA-TP-03105) p. 7. N92-2008 INASA-TP-03105) p. 7. N92-2008 INASA-TP-03119] p. 25. N92-11252 DENSITY DISTRIBUTED PROCESSING Large statistics of details with expension of the space shutton so fortices and solution of a forting and untraking of the space shutton so fortices. (International neural networks with applications in chiefcal systems.) Large space structures and systems in the space station of a forting as effects on pressure distributions for aeroa-sist flight experiment vehicle and comparison with prediction in froat-gas effects on pressure distributions for aeroa-sist flight experiment vehicle and comparison with prediction in froat-gas effects on pressure distributions for aeroa-sist flight experiment vehicle and comparison with prediction of froat-gas effects on pressure distributions for aeroa-sist flight experiment vehicle and comparison with prediction in froat-gas effects on pressure distributions for aeroa-sist flight experiment vehicle and comparison with prediction of froat-gas effects on pressure distributions for aeroa-sist flight experiment vehicle and comparison with prediction of froat-gas effects on p			
Navier-Stokes and Euler solutions for lee-side flows over supersonic deltal wings. A correlation with experiment, INASA-TP-3035). p. 4. N91-1401. Detailed flow field measurements over a 75 dag swept delta wing. [NASA-TP-3997]. p. 4. N91-1401. Detailed flow field measurements over a 75 dag swept delta wing. [NASA-TP-3187]. p. 4. N91-1800. Wind tunnel investigation of the interaction and solution. INASA-TP-3187]. p. 4. N91-1800. Wind tunnel investigation of the interaction and solution. INASA-TP-3187]. p. 6. N92-12994. Influence of a foil geometry on delta wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3114]. p. 6. N92-12994. Influence of a foil geometry on delta wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3114]. p. 7. N92-20038. [NASA-TP-3119]. p. 7. N92-20039. [NASA-TP-3119]. p. 7. N92-20039			Axisymmetric shell analysis of the space shuttle solid
Fault follerance of artificial neural networks with applications in critical systems. Detailed flow-field measurements over a 75 deg swept detate wing. [NASA-TP-397] p.4 N91 18030 [NASA-TP-397] p.4 N91 2803 [NASA-TP-397]	DELTA WINGS	[NASA-CP 10083-VOL-2-PT-1] p.18 N92-17768	
p. 4. N91-19301 Detailed flow-field measurements over a 75 deg swept detail wing (NASA-TP-3997)			
Detailed flow field measurements over a 75 dag swept delta wing (MASA-TP-3197) p. 4. N91 1900 Mind tunnel investigation of the interaction and breakdown characteristics of slender wing vortices at subsoinc transonic, and supersonic speeds (INASA-TP-3114) p. 6. N92-1294 Influence of a 1501 geometry on delta wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds (INASA-TP-3114) p. 7. N92-2003 DEMARKTEATION The 23 to 300 C demagnetization resistance of samenum cobalt permanent magnets (NASA-TP-31191) p. 5. N92-11252 DEMSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aerora-rist flight exponention tivelice and comparison with prediction (NASA-TP-31157) p. 27. N92-2067 DEPTH Effect of short-term exposure to stereoscopic flines from three dimensional flight displays on real-world depth perception (NASA-TP-3117) p. 11. N92-13065 DESIGN ANALYSIS A new fabrication method for precision anterinal reflectors for space flight and ground fest.			
Advanced techniques in reliability model representation and solution (INASA-TP-2997) p. 4. Ng 1.1803 and solution (INASA-TP-2997) p. 4. Ng 1.1803 and solution (INASA-TP-2997) p. 4. Ng 1.1803 breakdown characteristics of siender wing vortices at subsonic transonic, and supersonic speeds (INASA-TP-3114) p. 1. Ng 2.1306 (INASA-TP-3114) p. 27. Ng 2.2038 (INASA-TP-3115) p. 27. Ng 2.2038 (INASA-TP-3105) p. 7. Ng 2.2038 (INASA-TP-3115) p. 25. Ng 2.11252 (INASA-TP-3119) p. 25. Ng 2.11252 (INASA-TP-3119) p. 25. Ng 2.11252 (INASA-TP-3119) p. 27. Ng 2.2037 (INASA-TP	•		The 5th Annual NASA Spacecraft Control Laboratory
MASA-TP-3997 p. 4 N91 18030 Mind tunnel investigation of the interaction and breakdown characteristics of siender wing vortices at subsonic, transonic, and supersonic speeds (NASA-TP-3114) p. 6 N92-12994 Influence of 3 dot geometry on delta wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds (NASA-TP-3105) p. 7 N92-20038 NASA-TP-3105) p. 7 N92-20038 NASA-TP-3105	• • • • • • • • • • • • • • • • • • • •	F	Experiment (SCOLE) Workshop, part 2
Wind tunnel investigation of the interaction and breakdown characteristics of slender wing vortices at substonic transonic, and supersonic speeds. [MASA-TP-3114] p. 6. Ng2-1294 influence of 3-3 ord geometry on delta wing leading edge vortices and vorter-induced aerodynamics at supersonic speeds. [MASA-TP-3105] p. 7. Ng2-20038 DEMAGNETIZATION The 23 to 300 C demagnetization resistance of saminum-coball permanent magnets. [NASA-TP-3117] p. 25. Ng2-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception. [NASA-TP-3117] p. 11. Ng2-13065 DESIGN ANALYSIS A new fabrication method for precision anterior reflectors for space flight and ground lest.			
Also of the Earth's radiation budget as measured by Nimbus-7 May 1979 to May 1980 [NASA-TP-3104] p. 6. N92-12994 [NIMBUS-7 May 1979 to May 1980 [NASA-TP-3105] p. 7. N92-20038 [NASA-TP-3117] p. 7. N92-1305 [NASA-TP-3117] p. 7. N92-1305 [NASA-TP-3117] p. 7. N92-20077 [NASA-SP-7031] p. 7. N92-20077 [NASA-SP-7032] p. 7. N92-20077 [NASA-SP-7032	Wind tunnel investigation of the interaction and		
Subsonic. (ransonic, and supersonic speeds [NASA-TP-3114] p 6 N32-12994 Influence of 3-fort geometry on delta wing leading edge vortices and vortex-induced aerodynamics at supersonic speeds [NASA-TP-3105] p 7 N92-20038 [NASA-TP-3105] p 7 N92-20038 [NASA-TP-3105] p 7 N92-20038 The 23-to 300 C - demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 DENSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aeroansist flight experiment vehicle and comparison with prediction [NASA-TP-3157] p 27 N92-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 DESIGN ANAL YSIS A new fabrication method for precision antenna reflectors for space flight and ground last			
influence of 3 fort geometry on detta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds (NASA-TP-3105) p. 7. N92-20038 DEMAGNETIZATION The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets (NASA-TP-3119) p. 25. N92-11252 DENSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aeroganist flight experiment vehicle and comparison with prediction (NASA-TP-3157) p. 27. N92-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception (NASA-TP-3117) p. 11. N92-13065 A new fabrication method for precision anterinal reflectors for space flight and ground fest. Indicators of the space structures and systems in the space station era. A bibliography with indexes (Propulsion Systems (NASA-CP 1005 PT 2) p. 17. N31.223. Brickible Aerospace Systems cart. 2. NASA-CP 1005 PT 2) p. 17. N31.223. Structural integrity and Durab-lity of Reusalde Space station era. A bibliography with indexes (NASA-CP 1005 PT 2) p. 17. N31.223. Brickible Aerospace Systems cart. 2. NASA-CP 1005 PT 2) p. 17. N31.223. Structural integrity and Durab-lity of Reusalde Space station era. A bibliography with indexes (NASA-CP 1005 PT 2) p. 17. N31.223. Methods of applied dynamics. NASA-RP 1262) Development of an integrated aerosenceoerastic analytic program and correlation with test data (NASA-CP 10030) p. 19. N91.24965. Development of an integrated aerosenceoerastic analytic program and correlation with test data (NASA-CP 1005 PT 2). NASA-RP 1262) Development of an integrated aerosenceoerastic analytic program and correlation with test data (NASA-CP 1005 PT 2). NASA-RP 1262) Development of an integrated aerosenceoerastic analytic program and correlation with test data (NASA-CP 10030). NASA-RP 1262) Development of an integrated aerosenceoerastic analytic program and correlation with test data (NASA-CP 10030). NASA-RP 1262) Development of an integrated aerosenceoerastic analytic program and correlation			Fourth NASA Workshop on Computational Jontrol of
vortices and vortex-induced aerodynamics at supersoric speeds [NASA-TP:3105] p.7 N92-20038 DEMAGNETIZATION The 23 to 300 C demagnetization resistance of samenum-cobalt permanent magnets [NASA-TP:3119] p.25 N92-11252 DENSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aeroansist flight experiment vehicle and comparison [NASA-TP:3157] p.27 N92-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP:3117] p.11 N92-13065 A rew fabrication method for precision anternal reflectors for space flight and ground fest! DECUMENTS Large space structures and systems in the space station are a bibliography with indexes. Structural integrty and Durability of Reusable Space Propision Systems [NASA-CP 10030] p.19 N91-243 Methods of applied dynamics [NASA-RP 1262] p.24 N91-253 Development of an integrated aerosecopeable analysis program and correlation with test data and supplied decision making and program and correlation with test data and supplied decision making and program and correlation with test data and supplied decision making and program and correlation with test data and supplied decision making and program and correlation with test data and supplied and supplied dynamics [NASA-TP.3157] p.3 N92-27929 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP.3117] p.11 N92-13065 Payload bay doors and radiator panels familianization from the special program and correlation versus displayed to an steady-state toundary forces [NASA-TP.3120] p.3 N92-27929 Depth			Flexible Aerospace Systems, part 2
Large space station P.7 N92-20038 P.7 N9			
[NASA-TP-3119] p 25 N92-11252 DENSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions with prediction [NASA-TP-3119] p 27 N92-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 DESIGN ANALYSIS A new fabrication method for precision anternal reflectors for space flight and ground fest. INASA-P-7085(01)] p 17 N91-18199 [NASA-SP-7085(01)] [NA	speeds		Structural Integrity and Durability of Beusable Space
DEMAGNETIZATION The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 DENSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aeroansist flight experiment vehicle and comparison with prediction [NASA-TP-3157] p 27 N92-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 A new fabrication method for precision anternal reflectors for space flight and ground test International exploration of Mars A special bibliography (NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making A special bibliography. 1991 [NASA-SP-7091] p 32 N91-30588 A promatical engineering A continuing bibliography with indexes (supplement 277) [NASA-SP-7097(277)] p 3 N92-27429 DOORS Payload bay doors and radiator panels familiarization handbook [NASA-TP-3117] p 11 N92-13065 DOPPLER RADAR Airborne Wind Shear Detection and Warning Systems reflectors for space flight and ground test International exploration of Mars A special bibliography is 1949 N91-24965 Barth observations and global change decision making A special bibliography. 1991 [NASA-SP-7092] p 32 N91-30588 A eronautical engineering A continuing bibliography with indexes (supplement 277) [NASA-SP-7097(277)] p 3 N92-27429 DOORS Payload bay doors and radiator panels familiarization handbook [NASA-TP-3117] p 11 N92-13065 DOPPLER RADAR Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers and Technologists Effect of crash pulse shape or nat stroke requirence for imming loads on occupants of arcraft	1		
bibliography Samarum-cobalt permanent magnets [NASA-TP:3119] p 25 N92:11252 Earth observations and global change decision making DESITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aeroansist flight experiment vehicle and comparison with prediction [NASA-TP:3157] p 27 N92-20677 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP:3117] p 11 N92-13065 Design Analysis A rew afbrication method for precision anternal reflectors for space flight and ground test bibliography [NASA-SP-7091] p 49 N91-24965 Earth observations and global change decision making A special bibliography, 1991 [NASA-SP-7092] p 32 N91-3058 A sepoial bibliography, 1991 [NASA-TP:3157] p 27 N92-20677 [NASA-TP:3157] p 3 N92-27929 DORS Payload bay doors and radiator panels familianization thandbook [NASA-TP:3117] p 11 N92-13065 [NASA-TP:3117] p 11 N92-13065 DOPPLER RADAR Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturins and Technologists The effect of acceleration versus displacement method on steady-state touridary forces (NASA-TP:3218) p 10 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3117] p 11 N92-13065 DOPPLER RADAR Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturins and Technologists The effect of acceleration versus displacement method on steady-state touridary forces (NASA-TP:3218) p 10 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3218] p 10 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3217] p 13 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3217] p 13 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3217] p 13 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3218] p 13 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3218] p 13 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3218] p 13 N92-214 Donging Progress in Spacecraft Controls [NASA-TP:3217] p 13 N92-214			,
NASA-TP-3119 p. 25 N92-11252 Earth observations and global change decision making of readings effects on pressure distributions for aeroanist flight experiment vehicle and comparison with prediction with prediction [NASA-TP-3157] p. 27 N92-20677 NASA-TP-3157 p. 27 N92-20677 NASA-TP-3117 p. 11 N92-13065 Payload bay doors and radiator panels familiarization framework familiarization familiarization familiarization familiarization familiarization familiarization familiarization familiarizatio		bibliography	
DENSITY DISTRIBUTION Simulation of real-gas effects on pressure distributions for aeroansist flight experiment vehicle and comparison with prediction [NASA-TP-3157] p. 27 N92-20677 [NASA-SP-7037(277)] p. 3 N92-27429 DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p. 11 N92-13065 PASSA-TP-3171 p. 11 N92-13065 PASSA-TP-3171 p. 11 N92-13065 POPPLER RADAR Airborne Wind Shear Detection and Warning Systems reflectors for space flight and ground test Earth observations and global change decision making program and correlation with test data [NASA-TP-3120] p. 2 N91-265 The effect of acceleration versus displacement metho on steady-state toolidary forces [NASA-TP-3120] on steady-state toolidary forces [NASA-TP-318] p. 30 N92-214 Ongoing Program and correlation with test data [NASA-TP-3120] p. 2 N91-265 The effect of acceleration versus displacement metho on steady-state toolidary forces [NASA-TP-3128] on steady-state toolidary forces [NASA-TP-3218] p. 30 N92-214 Ongoing Program and correlation with test data [NASA-TP-3120] The effect of acceleration versus displacement metho on steady-state toolidary forces [NASA-TP-3128] on steady-state toolidary forces [NASA-TP-3218] p. 30 N92-214 Ongoing Program and correlation with test data [NASA-TP-3120] The effect of acceleration versus displacement metho on steady-state toolidary forces [NASA-TP-3128] on steady-state toolidary forces [NASA-TP-3218] p. 30 N92-214 Ongoing Program and correlation with test data [NASA-TP-3120] The effect of acceleration versus displacement method on steady-state toolidary forces [NASA-TP-3128] on steady-state toolidary forces [NASA-TP-3120] The effect of acceleration versus displacement method on steady-state toolidary forces [NASA-TP-3120] on steady-state toolidar			Development of an integrated aeroseryopiastic analysis
Simulation of real-gas effects on pressure distributions for aeroansist flight experiment vehicle and comparison with prediction [NASA-TP-3157] p. 27 N92-20677 [NASA-TP-3157] p. 27 N92-20677 [NASA-TP-3157] p. 27 N92-20677 [NASA-TP-3157] p. 37 N92-27429 [NASA-TP-3157] p. 37 N92-2			program and correlation with test data
for aeroansist flight experiment vehicle and comparison with prediction [NASA-TP-3157] p 27 N92-20677 [NASA-SP-7037(277)] p 3 N92-27929 [NASA-TP-3157] p 27 N92-20677 [NASA-SP-7037(277)] p 3 N92-27929 [NASA-TP-3157] p 27 N92-20676 [NASA-SP-7037(277)] p 3 N92-27929 [NASA-TP-318] p 15 N92-20676 [NASA-TP-3177] p 1 N92-13065 [NASA-TP-3177	Simulation of real-gas effects on pressure distributions		·
with prediction [NASA-TP-3157] p 27 N92-20677 DEPTH DOORS Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 1 N92-13065 DESIGN ANALYSIS A new fabrication method for precision anternal reflectors for space flight and ground test indexes (supplement 277) [NASA-TP-3117] p 27 N92-20677 [NASA-TP-307] p 3 N92-27929 DOORS Payload bay doors and radiator panels familiarization handbook [NASA-TP-3117] p 1 N92-13065 DOPPLER RADAR Airborne Wind Shear Detection and Warning Systems reflectors for space flight and ground test indexes (supplement 277) [NASA-TP-3218] p 10 N92-2149 Ongoing Progress in Spacecraft Controls [NASA-CP-10099] p 13 N92-2147 Indifference of mass moment of inertia on normal in end of precision anternal reflectors and Warning Systems Third Combined Manufacturities and Technologists Effect of crash pulse shape or nat stroke requirense for imming loads on occupants of arcraft.	*		
DEPTH Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] DESIGN ANALYSIS A new fabrication method for precision anternal reflectors for space flight and ground test NASA-TP 31 7 7 7 7 7 7 7 7 7		indexes (supplement 277)	
Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p.11 N92-13065 DOPPLER RADAR possible for including the stereoscopic handbook (NASA-TM 107793) p.15 N92-20676 of preloaded solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including the solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for including solar array mast (NASA-TP-3273) p.31 N92-334 DOPPLER RADAR possible for			
three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p.11 N92-13065 PESIGN ANALYSIS A new fabrication method for precision anterna and production and warning systems reflectors for space flight and ground test The difference part 2 Conference part 2 Indidence of mass moment of inertia on normal riced of precision and array mast [NASA-TP-3273] p.31 N92-344 DPPLER RADAR Airborne Wind Shear Detection and Warning Systems reflectors for space flight and ground test Conference part 2 Indidence of mass moment of inertia on normal riced of precision and strong mast moment of inertia on normal riced of precision and triced of precision and trice			
perception [NASA-TM 107793] p. 15 N92 20676 of preloaded solar array mast [NASA-TP-3117] p. 11 N92-13065 DOPPLER RADAR Alroyrne Weed Shear Detection and Warning Systems and abrication method for precision anternal reflectors for space flight and ground test. Conference part 2 Conference part 2			influence of mass moment of mertia on normal modes
DESIGN ANALYSIS A new fabrication method for precision anternal reflectors for space flight and ground test A new fabrication method for precision anternal reflectors for space flight and ground test A new fabrication method for precision anternal reflectors for space flight and ground test Conference part 2 DYNAMIC TESTS Effect of crash pulse shape or leaf stroke requirement for limiting loads on occupants of aircraft	perception		of preloaded solar array mast
A new fabrication method for precision anterina. Third Combined Manufacturers and Technologists: Effect of crash pulse shape or leat stroke requirement reflectors for space flight and ground test. Conference, part 2.	•	DOPPLER RADAR	
reflectors for space flight and ground test. Conference: part 2. for limiting loads on occupants of arcraft.			
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DYNAMICAL SYSTEMS	EIGENVALUES	ENERGY DISSIPATION
Technique to eliminate computational instability in multibody simulations employing the Lagrange multiplier	Identification of linear systems by an asymptotically stable observer	Aeroscoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics
[NASA-TP-3220] p 42 N92-23432	[NASA-TP-3164] p 31 N92-26537	(NASA-TP-3116) p 26 N91-25352
_	EJECTORS Venturi air-jet vacuum ejectors for high-volume	ENERGY METHODS Design of control laws for flutter suppression based on
E	atmospheric sampling on aircraft platforms	the aerodynamic energy concept and companisons with
EARTH (PLANET)	[NASA-TP-3183] p 11 N92-20546 ELASTIC PLATES	other design methods
Earth observations and global change decision making:	Applications of FEM and BEM in two-dimensional	[NASA-TP-3056] p 29 N91-10328 ENERGY OF FORMATION
A special bibliography, 1991	fracture mechanics problems [NASA-TP-3277] p.31 N92-31280	Equivalent crystal theory of alloys
[NASA-SP-7092] p 32 N91-30588 EARTH ATMOSPHERE	ELASTOHYDRODYNAMICS	[NASA-TP-3155] p 23 N91-30318 ENGINE AIRFRAME INTEGRATION
NASA/MSFC FY90 Global Scale Atmospheric	Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531	Effect of location of aft-mounted nacelles on the
Processes Research Program Review [NASA-CP-3093] p 35 N91-16500	ELASTOMERS	longitudinal aerodynamic characteristics of a high-wing transport airplane
NASA/MSFC FY91 Global Scale Atmospheric	Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring	[NASA-TP-3047] p.4 N91-13402
Processes Research Program Review [NASA-CP-3126] p 35 N91-32660	materials	ENGINE DESIGN
EARTH OBSERVATIONS (FROM SPACE)	(NASA-TP-3226) p 23 N92-27194 ELECTRA AIRCRAFT	Aeropropulsion 1987 [NASA-CP-3049] p 12 N92-22510
NASA/MSFC FY91 Global Scale Atmospheric	Venturi air-jet vacuum ejectors for high-volume	ENGINE HOISE
Processes Research Program Review [NASA-CP-3126] p 35 N91-32660	atmospheric sampling on aircraft platforms [NASA-TP-3183] p 11 N92-20546	J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field
Space and Earth Science Data Compression	[NASA-TP-3163] p 11 N92-20546 ELECTRIC BATTERIES	[NASA-TP-3053] p 45 N91-19823
Workshop [NASA-CP-3130] p 41 N92-12425	Space Electrochemical Research and Technology	ENGINE PARTS Rocket-Based Combined-Cycle (RBCC) Propulsion
EARTH ORBITAL ENVIRONMENTS	[NASA-CP-3125] p 33 N91-32549 The 1991 NASA Aerospace Battery Workshop	Technology Workshop Tutonal session
Orbital debris: Technical issues and future directions (NASA-CP-100771 p.49 N92-33478	[NASA-CP-3140] p 33 N92-22740	[NASA-CP-10090] p 20 N92-21517
EARTH ORBITS	ELECTRIC POTENTIAL Long-term life testing of Geostationary Operational	ENGINEERING MANAGEMENT NASA engineers and the age of Apollo
Metallized propellants for the human exploration of	Environmental Satellite (GOES) encoder lamps	[NASA-SP-4104] p 52 N92-28344
Mars (NASA-TP-3062) p 19 N91-11800	[NASA-RP-1273] p 23 N92-20063 ELECTRIC ROCKET ENGINES	ENTHALPY Calculations and curve fits of thermodynamic and
Current Collection from Space Plasmas	Magnetoplasmadynamic Thruster Workshop	transport properties for equilibrium air to 30000 K
[NASA-CP-3089] p 46 N91-17713	[NASA-CP-10084] p 20 N92-10044 ELECTRICAL PROPERTIES	(NASA-RP-1260) p 26 N92-11285 ENTROPY
EARTH RADIATION BUDGET User's guide: Nimbus-7 Earth radiation budget	Electrical and chemical interactions at Mars Workshop,	Aeroacoustic and aerodynamic applications of the theory
narrow-field-of-view products. Scene radiance tape	part 1 [NASA-CP-10093] p 50 N92-30302	of nonequilibrium thermodynamics
products, sorting into angular bins products, and maximum likelihood cloud estimation products	ELECTROCHEMISTRY	[NASA-TP-3118] p 26 N91-25352 ENVIRONMENT EFFECTS
[NASA-RP-1246] p 34 N91-13043	Electrochemical studies of corrosion inhibitors [NASA-TP-3066] p 22 N91-17208	Climate Impact of Solar Variability
Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August	Space Electrochemical Research and Technology	[NASA-CP-3086] p.50 N91-12456 The atmospheric effects of stratospheric aircraft: A
1985	[NASA-CP-3125] p 33 N91-32549 ELECTROMAGNETIC COUPLING	topical review
[NASA-RP-1243] p 34 N91-14683 Atlas of wide-field-of-view outgoing longwave radiation	The 1991 International Aerospace and Ground	[NASA-RP-1250] p 33 N91-16466
derived from Nimbus 7 Earth radiation budget data set,	Conference on Lightning and Static Electricity, volume 2 [NASA-CP-3106-VOL-2] p 36 N91-32693	Wind tunnel aerodynamic characteristics of a transport-type airfoil in a simulated heavy rain
November 1985 to October 1987 [NASA-RP-1261] p 35 N91-24719	ELECTROMAGNETIC PULSES	environment
Atlas of the Earth's radiation budget as measured by	The 1991 International Aerospace and Ground Conference on Lightning and Static Electricity, volume 2	[NASA-TP-3184] p.8 N92-31532 ENVIRONMENT MODELS
Nimbus-7: May 1979 to May 1980	[NASA-CP-3106-VOL-2] p 36 N91-32693	Electrical and chemical interactions at Mars Workshop.
[NASA-RP-1263] p 35 N91-24720 Mission description and in-flight operations of ERBE	ELECTRON IRRADIATION Space Photovoltaic Research and Technology	part 1 [NASA-CP-10093] p.50 N92-30302
instruments on ERBS, NOAA 9, and NOAA 10	Conference	ENVIRONMENT SIMULATION
spacecraft [NASA-RP-1279] p 32 N92-32127	{NASA-CP-3121} p 19 N91-30203 ELECTROSTATIC PROBES	Shortcomings in ground testing, environment simulations, and performance predictions for space
EARTH RADIATION BUDGET EXPERIMENT	A self-zeroing capacitance probe for water wave	applications
Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August	measurements [NASA-RP-1278] p 36 N92-27930	[NASA-TP-3217] p 23 N92-22593
1985	ELECTROSTATICS	Wind tunnel aerodynamic characteristics of a transport-type airfoil in a simulated heavy rain
[NASA-RP-1243] p 34 N91-14683	Sand and Dust on Mars (NASA-CP-10074) p 50 N91-27057	environment
Atlas of wide-field-of-view outgoing longwave radiation derived from Nimbus 7 Earth radiation budget data set,	The 1991 International Aerospace and Ground	[NASA-TP-3184] p 8 N92-31532 ENVIRONMENTAL ENGINEERING
November 1985 to October 1987	Conference on Lightning and Static Electricity, volume 1	Biological Life Support Technologies: Commercial
(NASA-RP-1261) p 35 N91-24719 Mission description and in-flight operations of ERBE	[NASA-CP-3106-VOL-1] p 35 N91-32599 ELEVATION	Opportunities [NASA-CP-3094] p 36 N91-13842
instruments on ERBS and NOAA 9 spacecraft, November	A self-zeroing capacitance probe for water wave	ENVIRONMENTAL SURVEYS
1984 - January 1986 [NASA-RP-1256] p 32 N92-10208	measurements [NASA-RP-1278] p 36 N92-27930	The atmospheric effects of stratospheric aircraft: A topical review
Mission description and in-flight operations of ERBE	ENERGETIC PARTICLES	[NASA-RP-1250] p 33 N91-16466
instruments on ERBS, NOAA 9, and NOAA 10 spacecraft	An efficient HZETRN (a galactic cosmic ray transport code)	EPOXY MATRIX COMPOSITES An examination of the damage tolerance enhancement
[NASA-RP-1279] p 32 N92-32127	[NASA-TP-3147] p 51 N92-22218	of carbon/epovy using an outer lamina of spectra (R)
EARTH SCIENCES	ENERGY ABSORPTION	[NASA-TP-3160] p.21 N92-11142 A statistical companson of two carbon fiber/epoxy
Rigid-body-control subsystem sizing for an Earth science geostationary platform	Failure behavior of generic metallic and composite aircraft structural components under crash loads	fabrication techniques
[NASA-TP-3087] p 17 N91-22302	[NASA-RP-1239] p 29 N91-13751	[NASA-TP-3179] p 22 N92-20950 EPOXY RESINS
Eaunch vehicle integration options for a large Earth scient is geostationary platform concept.	ENERGY BUDGETS Limb-darkening functions as derived from along-track	Structural properties of laminated Douglas fir/epoxy
[NASA-TP-3083] p 15 N91-27180	operation of the ERBE scanning radiometers for August	composite material [NASA-RP-1236] p 20 N91-10127
ECOSYSTEMS Controlled Ecological Life Support Systems. Natural and	1985 [NASA-RP-1243] p 34 N91-14683	EQUATIONS OF STATE
Artificial Ecosystems	Atlas of the Earth's radiation budget as measured by	Hypervelocity atmospheric flight: Real gas flow fields [NASA-RP-1249] p 26 N91-20418
[NASA-CP-10040] p 40 N91-24744 EDUCATION	Nimbus-7: May 1979 to May 1980 {NASA-RP-1263} p 35 N91-24720	EQUIPMENT SPECIFICATIONS
National Educators' Workshop Update 1988 Standard	The role of water vapor in climate. A strategic research	Exobiology on Mars [NASA-CP-10055] p 41 N91-15691
Experiments in Engineering Materials Science and Technology	plan for the proposed GEWEX water vapor project (GVaP)	ERROR ANALYSIS
[NASA-CP-3060] p 20 N91-20207	[NASA-CP-3120] p 35 N91-25556	Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound
National Educators' Workshop, Update 1991, Standard	ENERGY CONVERSION EFFICIENCY	[NASA-TP-3089] p 43 N91-25741
Experiments in Engineering Materials Science and Technology	Design and performance of controlled-diffusion stator compared with original double-circular-arc stator	ESTIMATES Flight Mechanics/Estimation Theory Symposium, 1990
[NASA-CP-3151] p 24 N92-30263	[NASA-TP-2852] p 12 N92-22863	[NASA-CP-3102] p 14 N91-17073

ESTIMATORS	Aerospace medicine and biology: A continuing	EXTRATERRESTRIAL ENVIRONMENTS
A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros	bibliography with indexes (supplement 352) [NASA-SP-7011(352)] p 38 N91-28729	Second LDEF Post-Retrieval Symposium abstracts [NASA-CP-10097] p 52 N92-27218
[NASA-TP-3178] p 24 N92-13343	Aerospace medicine and biology: A continuing	EXTRATERRESTRIAL RADIATION
EULER EQUATIONS OF MOTION	bibliography with indexes (supplement 353)	Improvements in computational accuracy of BRYNTRN
Transonic flow analysis for rotors. Part 3: Three-dimensional, quasi-steady, Euler calculation	[NASA-SP-7011(353)] p 38 N91-31760 Aerospace medicine and biology: A continuing	(a baryon transport code) [NASA-TP-3093] p 51 N91-23017
[NASA-TP-2375] p 3 N91-10007	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 354)	First LDEF Post-Retneval Symposium abstracts
Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment	[NASA-SP-7011(354)] p 38 N92-12404	[NASA-CP-10072] p 52 N91-24972 Transport methods and interactions for space
[NASA-TP-3035] p.4 N91-13401	Aerospace medicine and biology: A continuing	radiations
Shock wave interaction with an abrupt area change	bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412	[NASA-RP-1257] p 51 N92-15956
[NASA-TP-3113] p.6 N91-27140 Transonic and supersonic Euler computations of	Fourth Symposium on Chemical Evolution and the Origin	Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154
vortex-dominated flow fields about a generic fighter	and Evolution of Life	(NASA-TP-3235) p 39 N92-34154 EXTRAVEHICULAR ACTIVITY
[NASA-TP-3156] p.6 N92-10011	[NASA-CP-3129] p 41 N92-13588 Aerospace medicine and biology: A continuing	A method of evaluating efficiency during space-suited
EVOLUTION (DEVELOPMENT) Beyond the Baseline 1991: Proceedings of the Space	bibliography with indexes (supplement 356)	work in a neutral buoyancy environment
Station Evolution Symposium, Volume 2: Space Station	[NASA-SP-7011(356)] p 38 N92-15538	[NASA-TP-3153] p 40 N92-19772 Large space structures and systems in the space station
Freedom, part 2 [NASA-CP-10083-VOL-2-PT-2] p 18 N92-17348	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 357)	era: A bibliography with indexes (supplement 03)
EXERCISE PHYSIOLOGY	[NASA-SP-7011(357)] p 39 N92-21714	[NASA-SP-7085(03)] p 18 N92-22317
Workshop on Exercise Prescription for Long-Duration	Aerospace medicine and biology: A continuing	_
Space Flight [NASA-CP-3051] p 36 N91-10574	bibliography with indexes (supplement 359) [NASA-SP-7011(359)] p 39 N92-21715	F
EXHAUST EMISSION	Aerospace medicine and biology: A cumulative index	E 45 A1700 A770
The atmospheric effects of stratospheric aircraft: A	to a continuing bibliography (supplement 358)	F-15 AIRCRAFT Application and flight test of linearizing transformations
current consensus	[NASA-SP-7011(358)] p 39 N92-22026	using measurement feedback to the nonlinear control
[NASA-RP-1251] p 33 N91-16467 Optical measurements on solid specimens of solid rocket	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 362)	problem
motor exhaust and solid rocket motor stag	[NASA-SP-7011(362)] p 39 N92-27068	[NASA-TP-3154] p 12 N91-30154
[NASA-TP-3177] p 20 N92-20949	Aerospace medicine and biology: A continuing	F-18 AIRCRAFT Wind tunnel investigation of vortex flows on F/A-18
EXHAUST FLOW SIMULATION A parametric experimental investigation of a scramjet	bibliography with indexes (supplement 361)	configuration at subsonic through transonic speed
nozzle at Mach 6 with Freon and argon or air used for	[NASA-SP-7011(361)] p 39 N92-27433	[NASA-TP-3111] p 6 N92-14968
exhaust simulation	Aerospace medicine and biology: A continuing bibliography with indexes (supplement 363)	FABRICATION
[NASA-TP-3048] p 4 N91-16990 EXHAUST GASES	(NASA-SP-7011(363)) p 39 N92-30987	Structural properties of laminated Douglas fir/epoxy composite material
A parametric experimental investigation of a scramjet	EXPERIMENT DESIGN	[NASA-RP-1236] p 20 N91-10127
nozzle at Mach 6 with Freon and argon or air used for	Exobiology on Mars [NASA-CP-10055] p 41 N91-15691	A new fabrication method for precision antenna
exhaust simulation [NASA-TP-3048] p 4 N91-16990	Definition and design of an experiment to test raster	reflectors for space flight and ground test [NASA-TP-3078] p 17 N91-21185
EXHAUST NOZZLES	scanning with rotating unbalanced-mass devices on	FAILURE
A parametric experimental investigation of a scramjet	gimbaled payloads	Reliability training
nozzie at Mach 6 with Freon and argon or air used for exhaust simulation	(NASA-TP-3249) p 24 N92-29677 EXPERIMENTATION	[NASA-RP-1253] p 15 N92-32456
[NASA-TP-3048] p 4 N91-16990	National Educators' Workshop: Update 1988. Standard	FAILURE ANALYSIS Failure behavior of generic metallic and composite
Static internal performance of ventral and rear nozzle	Experiments in Engineering Materials Science and	aircraft structural components under crash loads
concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p.6 N92-10975	Technology (NASA-CP-3060) p 20 N91-20207	[NASA-RP-1239] p 29 N91-13751
EXHAUST SYSTEMS	[NASA-CP-3060] p. 20 N91-20207 National Educators' Workshop: Update 1991. Standard	Development of an adaptive failure detection and
Static internal performance of ventral and rear nozzle	Experiments in Engineering Materials Science and	identification system for detecting aircraft control element failures
concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p.6 N92-10975	Technology	[NASA-TP-3051] p 12 N91-25151
EXOBIOLOGY	[NASA-CP-3151] p 24 N92-30263 EXPERT SYSTEMS	A three-dimensional finite-element thermal/mechanical
Aerospace medicine and biology: A continuing	Joint University Program for Air Transportation	analytical technique for high-performance traveling wave tubes
bibliography with indexes (supplement 341) {NASA-SP-7011(341)} p 37 N91-10594	Research, 1989-1990	(NASA-TP-3081) p 25 N91-27436
Aerospace medicine and biology: A continuing	[NASA-CP-3095] p.1 N91-19024 Fourth Annual Workshop on Space Operations	The role of failure/problems in engineering A
bibliography with indexes (supplement 342)	Applications and Research (SOAR 90)	commentary of failures expenenced - lessons learned [NASA-TP-3213] p 24 N92-22235
[NASA-SP-7011(342)] p 37 N91-13063	[NASA-CP-3103-VOL-2] p 41 N91-20702	[NASA-TP-3213] p 24 N92-22235 Reliability training
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 343)	Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1	(NASA-RP-1253) p 15 N92-32456
[NASA-SP-7011(343)] p 37 N91-14711	(NASA-CP-10061-VOL-1) p 43 N91-21778	Advanced techniques in reliability model representation
Aerospace medicine and biology: A continuing	Guidance, navigation, and control subsystem equipment	and solution
bibliography with indexes (supplement 344) [NASA-SP-7011(344)] p 37 N91-14712	selection algorithm using expert system methods [NASA-TP-3082] p 42 N91-25624	[NASA-TP-3242] p 43 N92-33483 FAILURE MODES
Exobiology in Earth orbit: The results of science	Automating a spacecraft electrical power system using	Experimental validation of clock synchronization
workshops held at NASA, Ames Research Center	expert systems	algorithms
[NASA-SP-500] p 41 N91-14725 Exobiology on Mars	[NASA-TP-3161] p 20 N92-12052 Second CLIPS Conference Proceedings, volume 1	[NASA-TP-3209] p 42 N92-27589
[NASA-CP-10055] p 41 N91-15691	[NASA-CP-10085-VOL-1] p 42 N92-16568	Reliability training [NASA-RP-1253] p 15 N92-32456
Aerospace medicine and biology: A cumulative index	Second CLIPS Conference Proceedings, valume 2	Advanced techniques in reliability model representation
to a continuing bibliography (supplement 345) [NASA-SP-7011(345)] p 37 N91-16547	[NASA-CP-10085-VOL-2] p 42 N92-16590 Beyond the Baseline 1991: Proceedings of the Space	and solution
Microbiology on Space Station Freedom	Station Evolution Symposium. Volume 1: Space Station	[NASA-TP-3242] p 43 N92-33483
(NASA-CP-3108) p 37 N91-18573	Freedom, part 2	FAIRINGS Payload bay doors and radiator panels familiarization
Aerospace medicine and biology: A continuing	[NASA-CP-10083-VOL-1-PT-2] p 18 N92-17409 Fifth Annual Workshop on Space Operations	handbook
bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700	Applications and Research (SOAR 1991), volume 2	[NASA-TM-107793] p 15 N92-20676
Aerospace medicine and biology: A continuing	[NASA-CP-3127-VOL-2] p 41 N92-22324	FAN BLADES Design and performance of controlled-diffusion stator
bibliography with indexes (supplement 347)	EXPLORER SATELLITES	compared with original double-circular-arc stator
(NASA-SP 7011(347)) p 37 N91-23701	Small Explorer Data System MIL-STD-1773 fiber optic bus	[NASA-TP-2852] p 12 N92-22863
Aerospace medicine and biology: A continuing	[NASA-TP-3227] p 16 N92-26667	FAR FIELDS
bibliography with indexes (supplement 348) (NASA-SP-7011(348)) p 37 N91-23702	EXPOSURE	J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field.
Aerospace medicine and biology: A continuing	Space Photovoltaic Research and Technology Conference	(NASA-TP-3053) p 45 N91-19823
bibliography with indexes (supplement 349)	[NASA-CP-3121] p 19 N91-30203	FASTENERS
[NASA-SP-7011(349)] p 37 . N91-24731	Track structure model of cell damage in space flight	Development of a truss joint for robotic assembly of
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 350)	[NASA-TP-3235] p 39 N92-34154 EXTERNAL STORE SEPARATION	space structures [NASA-TP-3214] p.31 N92-27974
[NASA-SP-7011(350)] p 38 N91-25600	Measurements of forces, moments, and pressures on	FATIGUE (MATERIALS)

a generic store separating from a box cavity at supersonic speeds [NASA-TP-3110] p.6 N92-10005

Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth [NASA-TP-3231] p 31 N92-31279

Aerospace medicine and biology A continuing bibliography with indexes (supplement 351) [NASA-SP-7011(351)] p 38 N91-27756

p 43 N92-33483

p 9 N91-24166

p 35 N91-32599

p 11 N92-13065

p.9 N91-15141

p 9 N91-24166

p 14 N91-17073

p 11 N91-31143

p 10 N92-10994

Advanced techniques in reliability model representation

Airborne Wind Shear Detection and Warning Systems

Third Combined Manufacturers' and Technologists'

The 1991 International Aerospace and Ground Conference on Lightning and Static Electricity, volume 1

Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth

Report of the workshop on Aviation Safety/Automation

Airborne Wind Shear Detection and Warning Systems

Third Combined Manufacturers' and Technologists'

Flight Mechanics/Estimation Theory Symposium, 1990

Flight tests with a data link used for air traffic control

A comparison of airborne wake vortex detection

measurements with values predicted from potential

and solution

[NASA-TP-3242]

[NASA-CP-10060-PT-1]

[NASA-CP-3106-VOL-1]

FLIGHT MANAGEMENT SYSTEMS

FLIGHT INSTRUMENTS

INASA-TP-31171

INASA-CP-100541

Conference, part 1 [NASA-CP-10060-PT-1]

FLIGHT MECHANICS

[NASA-CP-3102]

INASA-TP-31351

[NASA-TP-3125]

FLIGHT SIMULATION

FLIGHT SAFETY

FLIGHT OPERATIONS

information exchange

FLIGHT HAZARDS

SUBJECT
FATIGUE TES
A method work in a ne
work in a ne (NASA-TP-3 FAULT TOLE)
NASA For
NASA-CP-1 Developm
identification
fariures [NASA-TP-3
Fault tole applications
INASA-TP-3
The 1992 of Artificial Is
[NASA-CP-3
Advanced and solution
INIACA TO G
FEASIBILITY .
measuring q [NASA-TP-3
Definition
scanning w gimbaled pa [NASA-TP-3
INASA-TP-3 FEEDBACK C
Application
using measi problem
[NASA-TP-3 The effe
performance
[NASA-TP-3 On the fo
robust contro [NASA-TP-3
FEMALES Response
stresses
(NASA-TP-3 FIBER COMPC Eighth D
Eighth D
Composites I NASA-CP-3 Eighth D
Eighth D Composites
Composites (NASA-CP-3 FIBER OPTICS
Small Exp
bus [NASA-TP-3
FIELD THEOR Workshop
Relations NASA-CP-3
FIGHTER AIR
Transonic vortex-domir
[NASA-TP-3
Static inte
(NASA-TP-3 Effect of
characteristic
transonic Ma NASA-TP-3
FILM THICKN Low-energ
characteriza
114000-11-0

INASA-TP-31201

[NASA-TP-3081]

geometry for finite element analysis

tubes

FATIGUE TESTS
A method of evaluating efficiency during space-suited
work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772
FAULT TOLERANCE
NASA Formal Methods Workshop, 1990
• [NASA-CP-10052] p 42 N91-17559
Development of an adaptive failure detection and
identification system for detecting aircraft control element
failures [NASA-TP-3051] p 12 N91-25151
• • • • • • • • • • • • • • • • • • • •
Fault tolerance of artificial neural networks with applications in critical systems
[NASA-TP-3187] p 42 N92-22285
The 1992 Goddard Conference on Space Applications
of Artificial Intelligence
[NASA-CP-3141] p 43 N92-23356
Advanced techniques in reliability model representation
and solution
[NASA-TP-3242] p 43 N92-33483
FEASIBILITY ANALYSIS
Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen
[NASA-TP-3150] p 19 N92-25147
Definition and design of an experiment to test raster
scanning with rotating unbalanced-mass devices on
gimbaled payloads
[NASA-TP-3249] p 24 N92-29677
FEEDBACK CONTROL
Application and flight test of linearizing transformations
using measurement feedback to the nonlinear control problem
[NASA-TP-3154] p 12 N91-30154
The effect of bandwidth on telerobot system
performance
[NASA-TP-3152] p 28 N91-30540
On the formulation of a minimal uncertainty model for
robust control with structured uncertainty [NASA-TP-3094] p. 13 N92-10027
[NASA-TP-3094] p 13 N92-10027 FEMALES
Responses of women to orthostatic and exercise
stresses
(NASA-TP-3043) p 37 N91-19711
FIBER COMPOSITES
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design part 1 [NASA-CP-3087-PT-1] p 22 N92-32513
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p.22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design part 1 [NASA-CP-3087-PT-1] p 22 N92-32513
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p.22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p.22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optice
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System Milt-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS)
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS)
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic flighter [NASA-TP-3156] p 6 N92-10011
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p. 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p. 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p. 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic lighter [NASA-TP-3156] Static internal performance of ventral and rear nozzle
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and ventcal-landing aircraft
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-25667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic lighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 [NASA-CP-3087-PT-2] p 22 [NASA-CP-3087-PT-2] p 22 [NASA-CP-3087-PT-2] p 16 [NASA-CP-3087-PT-2] p 16 [NASA-CP-3125] p 16 [NASA-TP-3227] p 16 [NASA-TP-3125] p 16 [NASA-CP-3135] p 46 [NASA-CP-3135] p 46 [NASA-CP-3135] p 46 [NASA-CP-3135] p 46 [NASA-CP-3135] p 6 [NASA-CP-3135] p 6 [NASA-TP-316] p 6 [NASA-TP-316] p 6 [NASA-TP-3103] p 9 [NASA-TP-3104] p 9 [NASA-TP-3105] p 9 [NASA-TP-3106] p 9 [NASA-TP-3106] p 9 [NASA-TP-3106] p 9 [NASA-TP-326] FILM THICKNESS
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] Static internal performance of ventral and rear nozzlet concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 [NASA-CP-3087-PT-2] p 22 [NASA-CP-3087-PT-2] p 22 [NASA-CP-3087-PT-2] p 16 [NASA-CP-3087-PT-2] p 16 [NASA-CP-3125] p 16 [NASA-TP-3227] p 16 [NASA-TP-3125] p 16 [NASA-CP-3135] p 46 [NASA-CP-3135] p 46 [NASA-CP-3135] p 46 [NASA-CP-3135] p 46 [NASA-CP-3135] p 6 [NASA-CP-3135] p 6 [NASA-TP-316] p 6 [NASA-TP-316] p 6 [NASA-TP-3103] p 9 [NASA-TP-3104] p 9 [NASA-TP-3105] p 9 [NASA-TP-3106] p 9 [NASA-TP-3106] p 9 [NASA-TP-3106] p 9 [NASA-TP-326] FILM THICKNESS
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538 FINITE DIFFERENCE THEORY
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3136] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and ventical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22536 FINTE DIFFERENCE THEORY Validation of three-dimensional incompressible spatia
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIBER OPTICS Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic tighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-326] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of three-dimensional incompressible spatial direct numerical simulation code: A comparison with linear direct numerical simulation code: A comparison with linear
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538 FINITE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3136] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and ventical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22536 FINTE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538 FINITE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p. 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p. 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p. 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic lighter [NASA-TP-3103] p. 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p. 6 N92-10075 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies aft transonic Mach numbers [NASA-TP-3266] p. 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22536 FILM THICKNESS Low-energy positron flux genera
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p. 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p. 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p. 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic lighter [NASA-TP-3156] p. 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p. 6 N92-10075 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3274] p. 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p. 27 N91-22538 FINITE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code. A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p. 8 N92-30295 FINITE ELEMENT METHOD Nineteenth NASTRAN (R) Users' Colloquium [NASA-CP-3111] p. 29 N91-20506
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538 FINITE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code: A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-305] p 8 N92-30295 FINITE ELEMENT METHOD Nineteenth NASTRAN (R) Users' Colloquium [NASA-CP-3111] Computational methods for frictionless contact with
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventrial and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538 FINITE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295 FINITE DIFFERENCE THEORY Nineteenth NASTRAN (R) Users' Colloquium [NASA-CP-3111] computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires
FIBER COMPOSITES Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FIBER OPTICS Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 FIELD THEORY (PHYSICS) Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 FIGHTER AIRCRAFT Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers [NASA-TP-3236] p 9 N92-33706 FILM THICKNESS Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538 FINITE DIFFERENCE THEORY Validation of three-dimensional incompressible spatial direct numerical simulation code: A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-305] p 8 N92-30295 FINITE ELEMENT METHOD Nineteenth NASTRAN (R) Users' Colloquium [NASA-CP-3111] Computational methods for frictionless contact with

IGUE TESTS	Improved accuracy for finite element structural analysis
A method of evaluating efficiency during space-suited ork in a neutral buoyancy environment	via a new integrated force method [NASA-TP-3204] p 30 N92-22227
ASA-TP-3153] p 40 N92-19772	Twentieth NASTRAN (R) Users' Colloquium
LT TOLERANCE	[NASA-CP-3145] p 30 N92-24324
NASA Formal Methods Workshop, 1990 IASA-CP-10052] p 42 N91-17559	Stress concentrations for straight-shank and countersunk holes in plates subjected to tension, bending,
Development of an adaptive failure detection and	and pin loading
entification system for detecting aircraft control element	[NASA-TP-3192] p 31 N92-25997
iures	Applications of FEM and BEM in two-dimensional fracture mechanics problems
ASA-TP-3051) p.12 N91-25151 p.12 N91-25151 p.12 N91-25151 p.12 N91-25151	[NASA-TP-3277] p 31 N92-31280
optications in critical systems	Eighth DOD/NASA/FAA Conference on Fibrous
ASA-TP-3187) p 42 N92-22285	Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p 22 N92-32513
The 1992 Goddard Conference on Space Applications	FINITE VOLUME METHOD
Artificial Intelligence IASA-CP-3141] p 43 N92-23356	Transonic flow analysis for rotors. Part 3:
Advanced techniques in reliability model representation	Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3 N91-10007
nd solution	FIRE (CLIMATOLOGY)
IASA-TP-3242] p 43 N92-33483 SIBILITY ANALYSIS	FIRE Science Results 1988
Feasibility study of a low-energy gamma ray system for	[NASA-CP-3083] p 34 N91-10448 FLAME STABILITY
easuring quantity and flow rate of slush hydrogen	Two-dimensional stability of laminar flames
IASA-TP-3150) p 19 N92-25147	[NASA-TP-3131] p 7 N92-17131
Definition and design of an experiment to test raster anning with rotating unbalanced-mass devices on	FLAPPING Full-scale semispan tests of a business-jet wing with a
nbaled payloads	natural laminar flow airfoil
ASA-TP-3249) p 24 N92-29677	[NASA-TP-3133] p 6 N91-30098 FLAPS (CONTROL SURFACES)
DBACK CONTROL Application and flight test of linearizing transformations	Aeropropulsive characteristics of canted twin
and measurement feedback to the nonlinear control	pitch-vectoring nozzles at Mach 0.20 to 1.20
oblem	[NASA-TP-3060] p 5 N91-22069
IASA-TP-3154] p 12 N91-30154 The effect of bandwidth on telerobot system	FLAT PLATES Measurements of forces, moments, and pressures on
informance	a generic store separating from a box cavity at supersonic
ASA-TP-3152] p 28 N91-30540	speeds
On the formulation of a minimal uncertainty model for bust control with structured uncertainty	[NASA-TP-3110] p.6 N92-10005 Validation of three-dimensional incompressible spatial
ASA-TP-3094] p 13 N92-10027	direct numerical simulation code: A comparison with linear
ALES	stability and parabolic stability equation theories for
Responses of women to orthostatic and exercise resses	boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295
ASA-TP-3043] p 37 N91-19711	FLEXIBILITY
R COMPOSITES	Calibration of the 13- by 13-inch adaptive wall test
Eighth DOD/NASA/FAA Conference on Fibrous composites in Structural Design, part 1	section for the Langley 0.3 meter transonic cryogenic tunnel
ASA-CP-3087-PT-1] p 22 N92-32513	{NASA-TP-3049} p 13 N91-13461
Eighth DOD/NASA/FAA Conference on Fibrous	FLEXIBLE BODIES
omposites in Structural Design, part 2 IASA-CP-3087-PT-2} p.22 N92-32574	Technique to eliminate computational instability in multibody simulations employing the Lagrange multiplier
R OPTICS	[NASA-TP-3220] p 42 N92-23432
Small Explorer Data System MIL-STD-1773 fiber optic	FLEXIBLE SPACECRAFT
s IASA-TP-3227 p 16 N92-26667	The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2
D THEORY (PHYSICS)	[NASA-CP-10057-PT-2] p 17 N91-19122
Workshop on Squeezed States and Uncertainty	Fourth NASA Workshop on Computational Control of
elations ASA-CP-3135 p.46 N92-22045	Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307
ITER AIRCRAFT	[NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of
Transonic and supersonic Euler computations of irtex-dominated flow fields about a generic fighter	Flexible Aerospace Systems, part 2
ASA-TP-3156] p.6. N92-10011	[NASA-CP-10065-PT-2] p 17 N91-22331
Static internal performance of ventral and rear nozzle	FLEXIBLE WINGS A method for the design of transonic flexible wings
incepts for short-takeoff and vertical-landing aircraft IASA-TP-3103] p.6 N92-10975	[NASA-TP-3045] p 10 N91-14323
Effect of afterbody geometry on aerodynamic	Fourth NASA Workshop on Computational Control of
aracteristics of isolated nonaxisymmetric afterbodies at	Flexible Aerospace Systems, part 2
Insonic Mach numbers IASA-TP-3236 p. 9 N92-33706	[NASA-CP-10065-PT-2] p 17 N91-22331 FLIGHT CHARACTERISTICS
A THICKNESS	Flight characteristics of a modified Schweizer SGS1-36
Low-energy positron flux generator for microstructural	sailplane at low and very high angles of attack
eracterization of thin films IASA-TP-3074] p 27 N91-22538	[NASA-TP-3022] p 12 N91-10079 FLIGHT CONDITIONS
TE DIFFERENCE THEORY	Stagnation-point heat-transfer rate predictions at
Validation of three-dimensional incompressible spatial	aeroassist flight conditions
rect numerical simulation code. A comparison with finear ability and parabolic stability equation theories for	[NASA-TP-3208] p 27 N92-31281
oundary-layer transition on a flat plate	FLIGHT CONTROL NASA Formal Methods Workshop, 1990
ASA-TP-3205 p.8 N92-30295	[NASA-CP-10052] p 42 N91-17559

nalysis 22227 24324 and inding. 25997 sional 31280 brous 32513 rt 3: 10007 10448 17131 with a 30098 22069 es on rsonic 10005 spatial es for 30295 ll test ogenic 13461 fity in 23432 ratory 19122 trol of 22307 trol of 22331 14323 trol of 22331 S1-36

NASA-LaRc Flight-Critical Digital Systems Technology

Development of an integrated aeroservoelastic analysis

Application and flight test of linearizing transformations

Control Center Technology Conference Proceedings

Control integration concept for hypersonic cruise-turn

using measurement feedback to the nonlinear control

program and correlation with test data

p 11 N91-24200

p.2 N91-26113

p 12 N91-30154

p 14 N92-12010

p 13 N92-20195

Workshop

p 2 N91-26113

p 25 N91-27436

p 28 N92-10195

A three-dimensional finite-element thermal/mechanical

A method for determining spiral-bevel gear tooth

analytical technique for high-performance traveling wave

[NASA-CP-10028]

[NASA-TP-3120]

[NASA-TP-3154]

[NASA-CP-10081]

INASA-TP-31361

maneuvers

Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program p 11 N91-24199 Human Machine Interfaces for Teleoperators and Virtual Environments Conference [NASA-CP-10071] p 40 N92-11638 FLIGHT TESTS Transonic Symposium Theory, Application and Experiment, volume 2 [NASA-CP-3020-VOL-2] p.5 N91-24132 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 Flight tests with a data link used for air traffic control information exchange INASA-TP-31351 p 11 N91-31143 FLOW CHARACTERISTICS Direct simulation of high-spec a mixing layers [NASA-TP-3186] p.8 N92-30909 FLOW DISTRIBUTION Navier-Stokes and Euler solutions for fee-side flows over supersonic delta wings. A correlation with experiment INASA-TP-30351 Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0.3-meter transonic cryocenic INASA-17-30491 p 13 N91-13461 A parametric experimental investigation of a scramjet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation INASA-TP-30481

p 4 N91-16990 Relative efficiency and accuracy of two Navier-Stokes codes for simulating attached transonic flow over wings [NASA-TP-3061] p 26 N91-17310 Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p.4 N91-18030 An explicit upwind algorithm for solving the parabolized Navier-Stokes equations p.4 N91-18032 An upwind-biased space marching algorithm for supersonic viscous flow

[NASA-TP-3068] p 26 N91-18381 Experimental investigation of porous-floor effects on cavity flow fields at supersonic speeds NASA-TP-30321 p 5 N91-19042

Hypervelocity atmospheric flight. Real gas flow fields [NASA-RP-1249] p 26 N91-20418 Aeropropulsive characteristics of canted hwin pitch-vectoring nozzles at Mach 0.20 to 1.20 [NASA-TP-3060] p.5 N91-22069 Effects of yaw angle and Reynolds number on p 5 N91-22069

rectangular-box cavities at subsonic and transonic p.5 N91-27124 NASA-TP-30991

Proceedings of the Second Joint Technology Workshop **FOREBODIES** Measurements of forces, moments, and pressures on Wind tunnel investigation of vortex flows on F/A-18 a generic store separating from a box cavity at supersonic on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] configuration at subsonic through transonic speed [NASA-TP-3111] p.6 N92-10005 p 6 N92-14968 (NASA-TP-3110) FUZZY SYSTEMS Proceedings of the Second Joint Technology Workshop Transonic and supersonic Euler computations of Simulation of real-gas effects on pressure distributions vortex-dominated flow fields about a generic fighter on Neural Networks and Fuzzy Logic, volume 1 for aeroassist flight experiment vehicle and comparison [NASA-TP-3156] p 6 N92-10011 INASA-CP-10061-VOL-1] p 43 N91-21778 Numerical analysis and simulation of an assured crew INASA-TP-31571 p 27 N92-20677 eturn vehicle flow field G FOURIER SERIES p 26 N92-10161 [NASA-TP-3101] Validation of three-dimensional incompressible spatial A comparison of airborne wake vortex detection direct numerical simulation code: A comparison with linear GALACTIC CLUSTERS measurements with values predicted from potential stability and parabolic stability equation theories for Paired and interacting Galaxies: International boundary-layer transition on a flat plate [NASA-TP-3125] Astronomical Union Colloquium No. 124 p 10 N92-10994 p8 N92-30295 [NASA-TP-3205] p 49 N91-16858 Calculations and curve fits of thermodynamic and FRACTURE MECHANICS GALACTIC COSMIC RAYS transport properties for equilibrium air to 30000 K National Educators' Workshop: Update 1988. Standard Cellular track model of biological damage to mammalian [NASA-RP-1260] p 26 N92-11285 Experiments in Engineering Materials Science and Wind tunnel investigation of the interaction and breakdown characteristics of slender wing vortices at cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 INASA-CP-30601 p 20 N91-20207 Radiation protection for human missions to the Moon subsonic, transonic, and supersonic speeds National Educators' Workshop: Update 1991. Standard [NASA-TP-3114] p 6 N92-12994 Experiments in Engineering Materials Science and p 50 N91-17999 INASA-TP-30791 The natural flow wing-design concept Technology [NASA-CP-3151] Benchmark solutions for the galactic heavy-ion transport p 7 N92-25202 (NASA-TP-3193) p 24 N92-30263 uations with energy and spatial coupling Computational Fluid Dynamics --- numerical methods Applications of FEM and BEM in two-dimensional p 44 N92-13756 INASA-TP-31121 and algorithm development fracture mechanics problems An efficient HZETRN (a galactic cosmic ray transport p 12 N92-25808 [NASA-TP-3277] p 31 N92-31280 Calculation of unsteady transonic flows with mild separation by viscous-inviscid interaction [NASA-TP-3147] FRACTURING p 51 N92-22218 GALACTIC STRUCTURE National Educators' Workshop: Update 1988. Standard [NASA-TP-3197] p 7 N92-28477 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 Experiments in Engineering Materials Science and A nozzle internal performance prediction method Technology INASA-TP-3221] p 8 N92-33625 [NASA-CP-3098] p 49 N91-16858 [NASA-CP-3060] **FLOW EQUATIONS** p 20 N91-20207 GALAXIES Calculation of unsteady transonic flows with mild separation by viscous-inviscid interaction FRAMES The Interstellar Medium in External Galaxies: Summanes vibrations of thin-walled Free semicircular of contributed papers p 7 N92-28477 graphite-epoxy composite frames [NASA-TP-3010] INASA-TP-31971 INASA-CP-30841 p 49 N91-14100 FLOW MEASUREMENT p 29 N91-13750 GAMMA RAY ASTRONOMY Three-dimensional laser window formation FRAMES (DATA PROCESSING) The Compton Observatory Science Workshop INASA-RP-1280] p 14 N92-30307 High Resolution, High Frame Rate Video Technology p 49 N92-21874 INASA-CP-31371 FLOW STABILITY INASA-CP-30801 p 27 N91-14574 GAMMA RAY BURSTS Aeroacoustic and aerodynamic applications of the theory FREE FLIGHT Development of the Burst and Transient Source Experiment (BATSE) of nonequilibrium thermodynamics Wind-tunnel static and free-flight investigation of INASA-TP-31181 p 26 N91-25352 high-angle-of-attack stability and control characteristics of [NASA-RP-1268] p 49 N91-32006 FLOW VELOCITY a model of the EA-6B airplane The Compton Observatory Science Workshop Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating [NASA-TP-3194] [NAS. 1-CP-3137]
GAMMA NAY OBSERVATORY p 49 N92-21874 FREE FLOW zero-head-space tissue culture vessel Detailed flow-field measurements over a 75 deg swept Development of the Burst and Transient Source Experiment (BATSE) [NASA-TP-3143] p 24 N92-13340 delta wing Feasibility study of a low-energy gamma ray system for INASA-TP-29971 p.4 N91-18030 measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-[NASA-RP-1268] p 49 N91-32006 FREE WING AIRCRAFT The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N9 p 19 N92-25147 Direct simulation of high-speed mixing layers p 49 N92-21874 FLOW VISUALIZATION INASA-TP-31861 p 8 N92-30909 GAMMA RAY TELESCOPES Detailed flow-field measurements over a 75 deg swept FREQUENCY DIVISION MULTIPLEXING The Compton Observatory Science Workshop [NASA-CP-3137] p 49 NS Destination-directed, packet-switching architecture for delta wing INASA-TP-29971 p 49 N92-21874 p 4 N91-18030 30/20-GHz FDMA/TDM geostationary communications GAMMA RAYS FLUID DYNAMICS satellite network Development of the Burst and Transient Source NASA-TP-3201] A weakly nonlinear theory for wave-vortex interactions p 16 N92-19762 Experiment (BATSE) in curved channel flow FREQUENCY SHIFT KEYING p 49 N91-32006 [NASA-TP-3158] p 7 N92-19175 Advanced Modulation and Coding Technology Feasibility study of a low-energy gamma ray system for Aeronautical engineering: A continuing bibliography with Conference measuring quantity and flow rate of slush hydrogen indexes (supplement 277) INASA-CP-100531 o 16 N92-22001 NASA-TP-31501 p 19 N92-25147 [NASA-SP-7037(277)] p 3 N92-27929 FREQUENCY STANDARDS GAS FLOW Validation of three-dimensional incompressible soatial The 22nd Annual Precise Time and Time Interval (PTTI) An explicit upwind algorithm for solving the parabolized direct numerical simulation code: A comparison with linear Applications and Planning Meeting Navier-Stokes equations stability and parabolic stability equation theories for [NASA-CP-31161 p 44 N91-25755 INASA-TP-30501 p.4 N91-18032 boundary-layer transition on a flat plate Proceedings of the 23rd Annual Precise Time and Time Hypervelocity atmospheric flight: Real gas flow fields INASA-TP-32051 p 8 N92-30295 Interval (PTTI) Applications and Planning Meeting [NASA-RP-1249] p 26 N91-20418 p 44 N92-33350 FLUID FILMS GAS-METAL INTERACTIONS Fundamentals of fluid lubrication FRICTIONLESS ENVIRONMENTS The interaction of hydrogen with metal alloys [NASA-RP-1255] p 28 N91-30531 Computational methods for frictionless contact with NASA-TP-31281 p 23 N91-29318 FLUID MECHANICS application to Space Shuttle Orbiter nose-gear tires GASEOUS DIFFUSION Aeropropulsion 1991 INASA-TP-3073] p 30 N91-22576 An investigation of microstructural characteristics of [NASA-CP-10063] p 12 N91-20086 **FUEL CELLS** contact-lens polymers Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating Space Electrochemical Research and Technology INASA-TP-30341 p 21 N91-13492 p 33 N91-32549 INASA-CP-31251 The interaction of hydrogen with metal alloys zero-head-space tissue culture vessel FULL SCALE TESTS INASA-TP-3128] p 23 N91-29318 INASA-TP-31431 p 24 N92-13340 Full-scale semispan tests of a business-jet wing with a GEAR TEETH **FLUTTER** natural laminar flow airfoil A method for determining spiral-bevel gear tooth Fourth NASA Workshop on Computational Control of INASA-TP-31331 p 6 N91-30098 geometry for finite element analysis Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] FUNCTION SPACE INASA-TP-30961 p 17 N91-22331 n 28 N92-10195 Trajectory fitting in function space with application to FLUTTER ANALYSIS analytic modeling of surfaces Design of control laws for flutter suppression based on NASA-TP-3232] Development of a full-scale transmission testing p.8 N92-30747 procedure to evaluate advanced lubricants the aerodynamic energy concept and comparisons with FUNCTIONAL DESIGN SPECIFICATIONS [NASA-TP-3265] p 28 N92-30396 other design methods Beyond the Baseline 1991: Proceedings of the Space [NASA-TP-3056] GELLED PROPELLANTS p 29 N91-10328 Station Evolution Symposium. Volume 2: Space Station Span reduction effects on the flutter characteristics of Upper stages using liquid propulsion and metallized Freedom part 1 arrow-wing supersonic transport configurations [NASA-TP-3077] p.11 f propellants [NASA-CP-10083-VOL-2-PT-1] p 18 N92-17768 [NASA-TP-3191] NASA-TP-3077] p.11 N91-21127 Planform curvature effects on flutter characteristics of o 20 N92-17151 **FUSELAGES** GENERAL AVIATION AIRCRAFT Two-dimensional aerodynamic characteristics of several a wing with 56 deg leading-edge sweep and panel aspect Effect of crash pulse shape on seat stroke requirements polygon-shaped cross-sectional models applicable to ratio of 1.14 for limiting loads on occupants of aircraft [NASA-TP-3116] p 11 N92-13054 p 30 N92-18053 INASA-TP-32331 p 8 N92-30394 **FLYING PLATFORMS** GEOCHEMISTRY Venturi air-jet vacuum ejectors for high-volume Proceedings of the Second Joint Technology Workshop Fourth Symposium on Chemical Evolution and the Origin

on Neural Networks and Fuzzy Logic, volume 2

INASA-CP-10061-VOL-21

p 43 N91-20811

and Evolution of Life

p 41 N92-13588

INASA-CP-31291

[NASA-TP-3183]

atmospheric sampling on aircraft platforms

p 11 N92-20546

Planetary geosciences, 1989-1990	GRAVITATIONAL PHYSIOLOGY	Tenth Workshop for Computational Fluid Dynamic
[NASA-SP-508] p 50 N92-28345	Techniques for determination of impact forces during walking and running in a zero-G environment	Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT p.27 N92-32278
GEODESY Types and Characteristics of Data for Geomagnetic Field	[NASA-TP-3159] p 38 N92-17022	HEAT TREATMENT
Modeling	GREENHOUSE EFFECT	Outgassing data for selecting spacecraft materials.
[NASA-ČP-3153] p 31 N92-28620	Climate Impact of Solar Variability	revision 2
GEOLOGY	[NASA-CP-3086] p 50 N91-12456 GRID GENERATION (MATHEMATICS)	[NASA-RP-1124-REV-2] p 21 N91-14437 HEAVY IONS
Volcanism-Climate Interactions [NASA-CP-10062] p 34 N91-21641	NASA Computational Fluid Dynamics Conference.	inclusive inelastic scattering of heavy ions and nuclear
Planetary geosciences, 1989-1990	Volume 1: Sessions 1-6	correlations
[NASA-SP-508] p 50 N92-28345	[NASA-CP-10038-VOL-1] p.4 N91-10839 Computational Fluid Dynamics Symposium on	[NASA-TP-3026] p 46 N91-13985
GEOMAGNETISM	Aeropropulsion	Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rujs
Types and Characteristics of Data for Geomagnetic Field Modeling	(NASA-CP-3078) p.5 N91-21062	[NASA-TP-3055] p 50 (491-16981
[NASA-CP-3153] p 31 N92-28620	An efficient HZETAN (a galactic cosmic ray transport	Benchmark solutions for the galactic heavy-ion transport
Steady induction effects in geomagnetism. Part 1A:	code) {NASA-TP-3147} p 51 N92-22218	equations with energy and spatial coupling [NASA-TP-3112] p.44 N92-13756
Steady motional induction of geomagnetic chaos	Software Surface Modeling and Grid Generation	[NASA-TP-3112] p. 44 N92-13756 HZETRN: A heavy ion/nucleon transport code for space
[NASA-TP-3272-PT-1A] p 34 N92-32655	Steering Committee	radiations
GEOPHYSICS Planetary geosciences, 1989-1990	[NASA-CP-3143] p.42 N92-24397 Workshop on Grid Generation and Related Areas	[NASA-TP-3146] p.51 N92-15959
[NASA-SP-508] p 50 N92-28345	[NASA-CP-10089] p 12 N92-25712	Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186
Types and Characteristics of Data for Geomagnetic Field	NASA Workshop on future directions in surface modeling	HEISENBERG THEORY
Modeling	and grid generation	Workshop on Squeezed States and Uncertainty
[NASA-CP-3153] p 31 N92-28620	[NASA-CP-10092] p 8 N92-29625 Trajectory litting in function space with application to	Relations
GEOSYNCHRONOUS ORBITS Thermal-distortion analysis of a spacecraft box truss in	analytic modeling of surfaces	[NASA-CP-3135] p 46 N92-22045 HELICOPTER PROPELLER DRIVE
geostationary orbit	[NASA-TP-3232] p 8 N92-30747	Experimental and analytical evaluation of efficiency of
[NASA-TP-3054] p 16 N91-11041	Tenth Workshop for Computational Fluid Dynamic	helicopter planetary stage
On-orbit structural dynamic performance of a 15-meter	Applications in Rocket Propulsion, part 1 (NASA-CP-3163-PT-1) p 27 N92-32278	[NASA-TP-3063] p 28 N91-12956 Development of a full-scale transmission testing
microwave radioineter antenna [NASA-TP-3041] p 16 N91-17114	GROUND BASED CONTROL	procedure to evaluate advanced lubricants
Launch vehicle integration options for a large Earth	Control Center Technology Conference Proceedings	[NASA-TP-3265] p 28 N92-30396
sciences geostationary platform concept	[NASA-CP-10081] p 14 N92-12010 GROUND EFFECT (AERODYNAMICS)	HELICOPTERS
[NASA-TP-3083] p 15 N91-27180	Low-speed, powered ground effects of a generic,	Experimental and analytical evaluation of efficiency of helicopter planetary stage
Packaging, development, and on-orbit assembly options for large geostationary spacecraft	hypersonic configuration	[NASA-TP-3063] p 28 N91-12956
[NASA-TP-3088] p 17 N91-27182	[NASA-TP-3092] p 5 N91-25103	Two-dimensional aerodynamic characteristics of several
GIBBS FREE ENERGY	GROUND SUPPORT EQUIPMENT The 25th Aerospace Mechanisms Symposium	polygon-shaped cross-sectional models applicable to helicopter fuselages
Gibbs free energy of reactions involving SiC, Si3N4, H2,	[NASA-CP-3113] p 30 N91-24603	[NASA-TP-3233] D.8 N92-30394
and H2O as a function of temperature and pressure [NASA-TP-3275] p 23 N92-31278	Control Center Technology Conference Proceedings	HÈLIUM
GLASS p 23 N32-31216	[NASA-CP-10081] p 14 N92-12010 GROUND SUPPORT SYSTEMS	The interaction of hydrogen with metal alloys
Three-dimensional laser window formation	Control Center Technology Conference Proceedings	[NASA-TP-3128] p 23 N91-29316 HEMATOPOIETIC SYSTEM
[NASA-RP-1280] p 14 N92-30307	[NASA-CP-10081] p 14 N92-12010	Analyses of risks associated with radiation exposure
GLIDERS	GROUND TESTS	from past major solar particle events
Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack	Shortcomings in ground testing, environment simulations, and performance predictions for space	(NASA-TP-3137) p 50 N91-31961 HIGH FREQUENCIES
[NASA-TP-3022] p 12 N91-10079	applications	
[NASA-TP-3022] p. 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM	[NASA-TP-3217] p 23 N92-22593	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution INASA-TP-3215) p 25 N92-20492 HIGH RESOLUTION
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight dock benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] The High Resolution Accelerometer Package (HiRAP)
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight dock benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] The High Resolution Accelerometer Package (HiRAP)
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review {NASA-CP-3093} p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary {NASA-CP-3148-VOL-1} p 15 N92-22660 Technology 2001 The Second National Technology	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION)	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution INASA-TP-3215) p 25 N92-20492 MIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 MIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660	[NASA-TP-3217] p 23 N92-22593 GROUND-Air-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUDANCE (MOTION) Joint University Program for Air Transportation	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLOS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing	[NASA-TP-3217] p 23 N92-22593 GROUND-Air-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUDANCE (MOTION) Joint University Program for Air Transportation	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLOS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment	[NASA-TP-3217] p 23 N92-22593 GROUND-Air-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 MIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 MIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop, Update 1988 Standard
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 MIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 MIGH REVNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 MIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution INASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summany [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames	[NASA-TP-3217] p 23 N92-22593 GROUND-Air-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 MIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 MIGH REVNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91 20207 AMSAHTS 1990 Advances in Materials Science and
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REVNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-TP-3060] p 20 N9* 20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summany [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop. Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N9* 20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summany [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZAROS Space Station Freedom Toxic and Reactive Materials	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop, Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990- Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Fiandling	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLOS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REVNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N9' 20207 AMSAHTS 1990' Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 Nº2-17070 Thermal and structural tests of Rene 41 honeycomb
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001 The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Earding [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLOS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite-toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy V-stiffened specimens loaded in compression	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 MIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 MIGH REVNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p. 30 N92-24205
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] b 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 30 N92-23115	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop, Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990- Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p. 30 N92-24205 HISTORIES
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite-toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy V-stiffened specimens loaded in compression	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of faminar-flow leading-edge test articles during NASA-TP-2888] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 MIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 MIGH REVNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p. 30 N92-24205
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] b 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-tP-2088] HALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop, Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p. 30 N92-24205 HISTORIES Engines and innovation Lewis Laboratory and American propulsion technology [NASA-SP-4306] p. 51 N91-15975
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3119] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 Graphite/epoxy composite adapters for the Space	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-2888] p 11 N91-24199 MEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 MEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-CP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3162] p. 30 N92-24205 HISTORIES Engines and innovation. Lewis Laboratory and American propulsion technology [NASA-SP-4306] p. 51 N91-15975 Responses of women to orthostatic and exercise
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2. [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 Graphite/Epoxy composite adapters for the Space Shuttle/Centaur vehicle	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-tP-2088] HALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p 30 N92-24205 HISTORIES Engines and innovation Lewis Laboratory and American propulsion technology [NASA-SP-4306] p 51 N91-15975 Responses of women to orthostatic and exercise stresses
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3102] p 20 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3104] F 15 N92-31251	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-2888] p 11 N91-24199 MEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-CP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3162] p. 30 N92-24205 HISTORIES Engines and innovation. Lewis Laboratory and American propulsion technology [NASA-SP-4306] p. 51 N91-15975 Responses of women to orthostatic and exercise
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 21 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3014] p 15 N92-23981 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 GRAPITATIONAL EFFECTS The microgravity environment of the Space Shuttle	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZAROS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of faminar-flow leading-edge test articles during NASA-teading-Edge Flight-Test Program [NASA-TP-2888] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p 30 N92-24205 HISTORIES Engines and innovation Lewis Laboratory and American propulsion technology [NASA-SP-4306] p 51 N91-15975 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 Proceedings of the X-15 First Flight 30th Anniversary Celebration
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] b 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 H HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-TP-2088] p 11 N91-24199 HALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 HEAT FLUX	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990- Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p. 30 N92-24205 HISTORIES Engines and innovation Lewis Laboratory and American propulsion technology [NASA-SP-4306] p. 51 N91-15975 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Proceedings of the X-15 First Flight 30th Anniversary Celebration
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on Intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 21 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3014] p 15 N92-23981 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 GRAPITATIONAL EFFECTS The microgravity environment of the Space Shuttle	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZAROS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of faminar-flow leading-edge test articles during NASA-teading-Edge Flight-Test Program [NASA-TP-2888] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLDS NUMBER Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990 Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p 30 N92-24205 HISTORIES Engines and innovation Lewis Laboratory and American propulsion technology [NASA-SP-4306] p 51 N91-15975 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 Proceedings of the X-15 First Flight 30th Anniversary Celebration
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3011] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 GRAVITATIONAL EFFECTS The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Earding [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-CP-3085] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-TP-2888] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simblified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 HEAT FLUX Thermal-distortion analysis of a spacecraft box truss in geostationary orbit [NASA-TP-3054] p 16 N91-11041	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop. Update 1988. Standard Experiments in Engineering Materials. Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990- Advances in Materials. Science and Applications of High Temperature Superconductors. [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS. High-temperature durability considerations for HSCT combustor. [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems. [NASA-TP-3145] p. 30 N92-24205 MISTORIES Engines and innovation. Lewis Laboratory and American propulsion technology. [NSA-SP-4306] p. 51 N91-15975. Responses of women to orthostatic and exercise stresses. [NASA-TP-3043] p. 37 N91-19711 Proceedings of the X-15 First Flight 30th Anniversary. Celebration. [NASA-CP-3105] p. 10 N91-20071 NASA engineers and the age of Apollo. (NASA-SP-4104) p. 52 N92-28344 HOLE DISTRIBUTION (MECHANICS)
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3071] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression on behavior of composite panels [NASA-TP-314] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3144] p 15 N92-31251 Graphite/epoxy composite adapters for the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space hssue culture vessel	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Flandling [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program [NASA-TP-3088] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3054] p 16 N91-11041 HEAT TRANSFER	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) light experiment summary for the first 10 flights [NASA-RP-1267] p 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop. Update 1988. Standard Experiments in Engineering Materials. Science and Technology [NASA-CP-3060] p 20 N91-20207 AMSAHTS 1990: Advances in Materials. Science and Applications of High Temperature Superconductors. [NASA-CP-3100] p 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor. [NASA-TP-3162] p 23 N92-17070. Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems. [NASA-TP-3145] p 30 N92-24205 HISTORIES Engines and innovation. Lewis Laboratory and American propulsion technology. [NASA-SP-4306] p 51 N91-15975. Responses of women to orthostatic and exercise stresses. [NASA-TP-3043] p 37 N91-19711 Proceedings of the X-15 First Flight 30th Anniversary Celebration. [NASA-CP-3105] p 10 N91-20071 NASA engineers and the age of Apollo. [NASA-SP-4304] p 52 N92-28344 HOLE DISTRIBUTION (MECHANICS) Compression behavior of graphite-thermoplastic and
[NASA-TP-3022] p 12 N91-10079 GLOBAL ATMOSPHERIC RESEARCH PROGRAM NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 GOVERNMENT/INDUSTRY RELATIONS Space Transportation Materials and Structures Technology Workshop Volume 1. Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676 GOVERNMENTS The Federal Conference on intelligent Processing Equipment [NASA-CP-3138] p 52 N92-24987 GRAPHITE-EPOXY COMPOSITES Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact damage [NASA-TP-3011] p 21 N91-18215 Properties of three graphite/toughened resin composites [NASA-TP-3102] p 21 N92-10067 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression [NASA-TP-3171] p 30 N92-23115 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 GRAVITATIONAL EFFECTS The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating	[NASA-TP-3217] p 23 N92-22593 GROUND-AIR-GROUND COMMUNICATION Flight deck benefits of integrated data link communication [NASA-TP-3219] p 10 N92-21459 GROUP THEORY Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 GUIDANCE (MOTION) Joint University Program for Air Transportation Research, 1989-1990 [NASA-CP-3095] p 1 N91-19024 HARMONICS Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 HAZARDS Space Station Freedom Toxic and Reactive Materials Earding [NASA-CP-3085] p 48 N91-15930 HAZE Evaluation of cloud detection instruments and performance of laminar-flow leading-edge test articles during NASA-CP-3085] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-TP-2888] p 11 N91-24199 HEALTH Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 HEAT AFFECTED ZONE A simblified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 HEAT FLUX Thermal-distortion analysis of a spacecraft box truss in geostationary orbit [NASA-TP-3054] p 16 N91-11041	Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p. 25 N92-20492 HIGH RESOLUTION High Resolution, High Frame Rate Video Technology [NASA-CP-3080] p. 27 N91-14574 The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights [NASA-RP-1267] p. 3 N92-22505 HIGH REYNOLDS NUMBEP Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] p. 5 N91-27124 HIGH TEMPERATURE SUPERCONDUCTORS National Educators' Workshop, Update 1988, Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p. 20 N91-20207 AMSAHTS 1990- Advances in Materials Science and Applications of High Temperature Superconductors [NASA-CP-3100] p. 22 N92-21605 HIGH TEMPERATURE TESTS High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p. 23 N92-17070 Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems [NASA-TP-3145] p. 30 N92-24205 HISTORIES Engines and innovation, Lewis Laboratory and American propulsion technology [NSA-SP-4306] p. 51 N91-15975 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Proceedings of the X-15 First Flight 30th Anniversary Celebration (NASA-CP-3105) p. 10 N91-20071 NASA engineers and the age of Apollo (NASA-SP-4104) p. 52 N92-28344 HOLE DISTRIBUTION (MECHANICS)

HOLES (MECHANICS) Stress concentrations for straight-shank and	Proceedings of the X-15 First Flight 30th Anniversary	IMAGING TECHNIQUES High Resolution, High Frame Rate Video Technology
countersunk holes in plates subjected to tension, bending,	Celebration	[NASA-CP-3080] p 27 N91-14574
and pin loading	[NASA-CP-3105] p 10 N91-20071	Sixteenth International Laser Radar Conference, part
[NASA-TP-3192] p 31 N92-25997	Hypervelocity atmospheric flight. Real gas flow fields	1
HONEYCOMB CORES A novel method of testing the shear strength of thick	[NASA-RP-1249] p 26 N91-20418	[NASA-CP-3158-PT-1] p 28 N92-29228 Sixteenth International Laser Radar Conference, part
honeycomb composites	Control integration concept for hypersonic cruise-tern maneuvers	2
[NASA-TP-3108] p 21 N91-21242	[NASA-TP-3136] p 13 N92-20195	[NASA-CP-3158-PT-2] p 28 N92-31013
HONEYCOMB STRUCTURES	Rocket-Based Combined-Cycle (RBCC) Propulsion	IMPACT DAMAGE
A novel method of testing the shear strength of thick honeycomb composites	Technology Workshop Tutorial session	Compression behavior of graphite-thermoplastic and
[NASA-TP-3108] p 21 N91-21242	[NASA-CP-10090] p 20 N92-21517	graphite-epoxy panels with circular holes or impact damage.
Determination of the flight hardware configuration of an	An analysis of combustion studies in shock expansion tunnels and reflected shock tunnels	[NASA-TP-3071] p 21 N91-18215
energy absorbing attenuator for the proposed Space	[NASA-TP-3224] p 22 N92-28374	A novel method of testing the shear strength of thick
Station crew and equipment translation aid cart	HYPERSONIC FLOW	honeycomb composites
[NASA-TP-3084] p 29 N91-21556 Evaluation of a technique to generate artificially	An explicit upwind algorithm for solving the parabolized	[NASA-TP-3108] p.21 N91-21242 NASA workshop on impact damage to composites
thickened boundary layers in supersonic and hypersonic	Navier-Stokes equations	[NASA-CP-10075] p 21 N91-29240
flows	[NASA-TP-305ú] p.4 N91-18032 Evaluation of a technique to generate artificially	Properties of three graphite/toughened resin
[NASA-TP-3142] p 6 N91-28136	thickened boundary layers in supersonic and hypersonic	composites
Thermal and structural tests of Rene 41 honeycomb	flows	INASA-TP-3102 p.21 2-10067
integral-tank concept for future space transportation systems	[NASA-TP-3142] p.6 N91-28136	Effect of low-speed impact damage and damage location on behavior of composite panels
(NASA-TP-3145) p 30 N92-24205	Numerical analysis and simulation of an assured crew	[NASA-TP-3196] p 22 N92-23981
HUBBLE SPACE TELESCOPE	return vehicle flow field [NASA-TP-3101] p 26 N92-10161	Orbital debris Technical issues and future directions
The role of failure/problems in engineering: A	Stagnation-point heat-transfer rate predictions at	[NASA-CP-10077] p 49 N92-33478
commentary of failures experienced - lessons learned	aeroassist flight conditions	IMPACT LOADS
{NASA-TP-3213} p 24 N92-22235 HUMAN BEINGS	[NASA-TP-3208] p 27 N92-31281	Failure behavior of generic metallic and composite aircraft structural components under crash loads
Correlation and prediction of dynamic human isolated	HYPERSONIC HEAT TRANSFER	[NASA-RP-1239] p 29 N91-13751
joint strength from lear body mass	*tagnation-point heat-transfer rate predictions at aeroassist flight conditions	Properties of three graphite/toughened resin
[NASA-TP-3207] p 40 N92-26682	[NASA-TP-3208] p 27 N92-31281	composites
HUMAN FACTORS ENGINEERING	HYPERSONIC SPEED	(NASA-TP-3102) p 21 N92-10067
Aviation Safety/Automation Program Conference [NASA-CP-3090] p.9 N91-10936	Simulation of real-gas effects on pressure distributions	Techniques for determination of impact forces during walking and running in a zero-G environment
Manual Control Aspects of Orbital Flight	for aemassict flight experiment vehicle and comparison	[NASA-TP-3159] p 38 N92-17022
(NASA-CP-10056) p 13 N91-20147	with prediction [NASA-TP-3157] p 27 N92-20677	IMPACT TESTS
Fourth Annual Workshop on Space Operations	HYPERSONIC VEHICLES	A novel method of testing the shear strength of thick
Applications and Research (SDAR 90)	Control integration concept for hypersonic cruise-turn	honeycomb composites
[NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations	maneuvers	[NASA-TP-3108] p 21 N91-21242 Properties of three graphite/toughened resin
Applications and Research (SOAR 90)	[NASA-TP-3136] p 13 N92-20195	composites
[NASA-CP-3103-VOL-2] p 41 N91-20702	NASA Computational Fluid Dynamics Conference	[NASA-TP-3102] p 21 N92-10067
Effect of short-term exposure to stereoscopic	Volume 2 Sessions 7-12	An examination of the damage tolerance enhancement
three-dimensional flight displays on real-world depth	[NASA-CP-10038-VOL-2] p 4 N91-10868	of carbon/epoxy using an outer lamina of spectra (R)
perception	HYPERVELOCITY FLOW	[NASA-TP-3160] p 21 N92-11142 Effect of low-speed impact damage and damage location
[NASA-TP-3117] p 11 N92-13065 Fifth Annua Workshop on Space Operations	Hypervelocity atmospheric flight. Real gas flow fields	on behavior of composite panels
Applications and Research (SOAR 1991), volume 2	(N°SA-RP-1243) p 26 N91-20418 Advanced Hypervelocity Aerophysics Facility	(NASA-TP-3196) p 22 N92-23981
[NASA-CP-3127-VOL-2] p 41 N92-22324	Workshop	IMPACT TOLERANCES
Cable compliance	[NASA-CP-10031] p 13 N91-24211	A novel method of testing the shear strength of thick
[NASA-TP-3216] p 24 N92-30378	HYPERVELOCITY IMPACT	honeycomb composites [NASA-TP-3108] p 21 N91-21242
HUMAN PERFORMANCE	Orbital debris: Technical issues and future directions	IN-FLIGHT MONITORING
Eccentric and concentric muscle per : mance following 7 days of simulated weightlessness	[NASA-CP-10077] p 49 N92-33478	A comparison of sirborne wake vortex detection
[NASA-TP-3182] p. 23 N92-17645	1	measurements with values predicted from potential
The validation of a human force model to predict dynamic	1	[NASA-TP-3125] p 10 N92-10994
forces resulting from multi-joint motions	ICE	[NASA-TP-3125] p 10 N92-10994 INCOMPRESSIBLE FLOW
[NASA-TP-3206] p 40 N92-26538	West Antarctic Ice Sheet Initiative, Volume 1 Science	Validation of three-dimensional incompressible spatial
HYDRAZINES	and Implementation Plan	direct numerical simulation code: A comparison with linear
Lunar missions using chemical propulsion: System	[NASA-CP-3115-VOL-1] p 32 N91-20541	stability and parabolic stability equation theories for
[NASA-TP-3065] p 19 N91-15308	West Antarctic Ice Sheet Initiative Volume 2: Discipline	boundary-layer transition on a flat plate [NASA-TP-3205] p.8 N92-30295
HYDRODYNAMIC EQUATIONS	Reviews (NASA-CP-3115-VOL-2) p.32 N91-26573	[NASA-TP-3205] p 8 N92-30295 INDEXES (DOCUMENTATION)
Hypervelocity atmospheric flight: Real gas flow fields	ICE CLOUDS	Aeronautical engineering. A continuing bibliography with
[NASA-RP-1249] p.26 NC i-20418	International Workshop on Stratospheric Aerosofs	indexes (supplement 256)
HYDROGEN	Measurements, Properties, and Effects	[NASA-SP-7037(256)] p.1 N91-10002
Surface effects on hydrogen permeation through Ti-14Al-2:Nb alloy	(NASA-GP-3114) p 32 N91-32528 ICE ENVIRONMENTS	Aerospace medicine and biology A continuing
[NASA-TP-3109] p.23 N91-20266	West Antarctic Ice Sheet Initiative Volume 1 Science	bibliography with indexes (supplement 341) (MASA-SP-7011(341)) p 37 N91-10594
The interaction of hydrogen with metal alloys	and Implementation Plan	NASA Thesaurus supplement. A four part cumulative
[NASA-TP-3128] p 23 N91-29318	[NASA-CP-3115-VOL-1] p 32 N91-20541	optement to the 1988 edition of the NASA Thesaurus
Gibbs free energy of reactions involving SiC, Si3N4, H2,	ICE FORMATION	(supplement 4)
and H2O as a function of temperature and pressure	Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing ranti-icing fluids	[NASA-SP-7064-SUPPL-4] p.4. N91-10804
[NASA-TP-3275] p 23 N92-31278	(NASA-TP-3238) p.10 N92-30395	Aeronautical engineering. A continuing bibliography with
The interaction of hydrogen with metal alloys	IMAGE ANALYSIS	indexes (supplement 257) [NASA-SP-7037(257)] p.1 N91-12589
[NASA-TP-3128] p 23 N91-29318	Multisource Data Integration in Remote Sensing	Aerospace medicine and biology A continuing
HYDROGEN MASERS	[NASA CP-3099] p 32 N91-15615	bibliography with indexes (supplement 342)
The 22nd Annual Precir e Time and Time Interval (PTTI)	IMAGE PROCESSING High Resolution, High Frame Rate Video Technology	[NASA-SP-7011(342)] p 37 N91-13063
Applications and Planning Meeting	(NASA-CP-3080) p 27 N91-14574	NASA scientific and technical publications. A catalog
[NASA-CP-3116] p 44 N91-25755	Multisource Data Integration in Remote Sensing	of special publications, reference publications, conference
HYDROGEN OXYGEN ENGINES Tenth Workshop for Computational Fluid Dynamic	(NASA-CP-3099) p 32 N91-15615	publications, and technical papers, 1989 {NASA-SP-7063(04)} p.47 N91-13374
Applications in Rocket Propulsion, part 2	Proceedings of the Second Joint Technology Workshop	Aeronautical engineering. A continuing bibliography with
[NASA-CP-3163-PT-2] p 27 N92-3224-	un Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p.43 N91-20811	indexes (supplement 258)
HYPERSONIC AIRCRAFT	Space and Earth Science Data Compression	[NASA-SP-7037(258)] p.1 N91-13.799
Advanced Hypervelocity Aerophysics Facility	Workshop	Aerospace medicine and biology A continuing
Workshop	[NASA-CP-3130] p 1 N92-12425	bibliography with indexes (supplement 344)
[NASA-CP-10031] p 13 N91-24211	IMAGE RESOLUTION	[NASA-SP-7011(344)] p 37 N91 14712
Low-speed, powered ground effects of a generic, hypersonic configuration.	The effects of video compression on acceptability of images for monitoring life sciences experiments	Aeronautical engineering. A continuing bibliography with indexes (supplement 260).
(NASA-TP-3092) p.5 N91-25103	[NASA-TP-3239] p 16 N92-33933	[NASA-SP-7037(260)] p.1 N91-15978

Aeronautical engineering. A continuing bibliography with	Aerospace medicine and biology. A cumulative index	INHIBITORS
indexes (supplement 259)	to a continuing bibliography (supplement 358)	Electrochemical studies of corrosion inhibitors
[NASA-SP-7037(259)] p 1 N91-15979	[NASA-SP-7011(358)] p.39 N92-22026	[NASA-TP-3066] p 22 N91-17208
Aerospace medicine and biology. A cumulative index	NASA patent abstracts bibliography. A continuing	INSERTS
to a continuing bibliography (supplement 345)	bibliography Section 2 Indexes (supplement 40)	Large-scale aeroacoustic research feasibility and
(NASA-SP-7011(345)) p 37 N91-16547	[NASA-SP-7039(40)-SECT-2] p. 48 N92-27081 Aeronautical engineering. A continuing bibliography with	conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel
Large space structures and systems in the space station	indexes (supplement 277)	INASA TP-3020) p 45 N91-19624
era A bibliography with indexes [NASA-SP-7085(01)] p 17 N91-18199	[NASA-SP-7037(277)] p 3 N92-27929	INSPECTION
NASA Thesaurus supplement. A four part cumulative	Aeronautical engineering. A continuing bibliography with	Second Conference on NDE for Aerospace
supplement to the 1988 edition of the NASA Thesaurus	indexes (supplement 278)	Requirements
(supplement 5)	[NASA-SP-7037(278)] p 3 N92-28677	[NASA-CP-3091] p.16 N91-18189
[NASA-SP-7064-SUPPL-5] p 47 N91-19962	Aeronautical engineering. A continuing bibliography with	National Educators' Workshop Update 1988 Standard
Aeronautical engineering. A cumulative index to a	Indexes (supplement 275) {NASA-SP-7037(275)} p.3 N92-28679	Experiments in Engineering Materials Science and Technology
continuing bib ¹ ography (supplement 261)	NASA patent abstracts bibliography. A continuing	NASA-CP-30601 p.20 N91-20207
[NASA-SP-7037(261)] p.1 N91-23073	bibliography Section 2 Indexes (supplament 41)	INSTALLING
Aeronautical engineering: A continuing bibliography with	(NASA-SP-7039(41)-SECT-2) p 48 N92-31455	Large-scale aeroacoustic research feasibility and
indexes (supplement 262)	Aeronautical engineering. A continuing bibliography with	conceptual design of test-section inserts for the Ames 80-
[NASA-SP-7037(262)] p.1 N91-23074	indexes (supplement 280)	by 120-toot wind tunnel
Aerospace medicine and biology: A continuing	[NASA-SP-7037(280)] p.3 N92-31456	[NASA-TP-3020] p 45 N91-19824
bibliography with indexes (supplement 346) [NASA-SP-7011(346)] p 37 N91-23700	INDUCED DRAG	INSTRUMENTS
Aerospace medicine and biology A continuing	Applications of a direct/iterative design method to complex transonic configurations	NASA Wallops Flight Facility Air-Sea Interaction
bibliography with indexes (supplement 347)	[NASA-TP-3234] p.8 N92-33484	Research Facility
[NASA-SP-7011(347)] p 37 N91-23701	INDUSTRIES	[NASA-RP-1277] p 36 N92-25981 INSULATORS
Aerospace medicine and biology: A continuing	Technology for the Future: In-Space Technology	Low-energy positron flux generator for microstructural
bibliography with indexes (supplement 348)	Experiments Program, part 1	characterization of thin films
[NASA-SP-7011(348)] p 37 N91-23702	[NASA-CP-10073-PT-1] p 14 N91-27177	[NASA-TP-3074] p 27 N91 22538
Aeronautical engineering: A continuing bibliography with	Technology for the Future. In-Space Technology	INTEGRATED MISSION CONTROL CENTER
indexes (supplement 265)	Experiments Program, part 2	Control Center Technology Conference Proceedings
(NASA SP-7037(265)) p.2 N91-24095	[NASA-CP-10073-PT-2] p 14 N91-27178	[NASA-CP-10081] p 14 N92-12010
Aeronautical engineering. A continuing bibliography with	INELASTIC SCATTERING	INTERACTING GALAXIES
indexes (supplement 263)	Inclusive inelastic scattering of heavy ions and nuclear	Paired and interacting Galaxies International
[NASA-SP-7037(263)] p 2 N91-24096	correlations [NASA-TP-3026] p 46 N93-13995	Astronomical Union Colloquium No. 124
Aeronautical engineering: A continuing bibliography with indexes (supplement 264)	INERTIA	[NASA-CP-J098] p 49 N91-16858 INTERACTIONAL AERODYNAMICS
[NASA-SP-7037(264)] p 2 N91-24097	inertial oscillation of a vertical rotating draft with	Wake geometry effects on rotor blade-vortex interaction
Aerospace medicine and biology. A continuing	application to a supercell storm	noise directivity
bibliography with indexes (supplement 349)	[NASA-TP-3230] p 36 N92-33482	[NASA-TP-3015] p 44 N91-12315
[NASA-SP-7011(349)] p 37 N91-24731	INERTIAL UPPER STAGE	Acoustic and aerodynamic study of a pusher-propeller
NASA scientific and technical publications. A catalog	Upper stages using liquid propulsion and metallized	aircraft model
of special publications, reference publications, conference	propellants	[NASA-TP-3040] p 45 N91-21828
publications, and technical papers, 1987-1990	[NASA-TP-3191] p 20 N92-17151	Wind tunnel investigation of vortex flows on F/A-18
[NASA-SP-7063(05)] p 47 N91-24939	INFORMATION DISSEMINATION	configuration at subsonic through transonic speed
Aerospace medicine and biology: A continuing	Large space structures and systems in the space station	[NASA-TP-3111] p.6 N92-14968
bibliography with indexes (supplement 350) [NASA-SP-7011(350)] p 38 N91-25600	era. A bibliography with indexes {NASA-SP-7085(01)} p.17 N91-18199	installation effects of wing-mounted turbofan nacelle-pylons on a 1/17-scale, twin-engine, low-wing
Aeronautical engineering. A continuing hibliography with	Technology 2000, volume 2	transport model
indexes (supplement 266)	NASA-CP-3109-VOL-21 p 52 N91-24041	[NASA-TP-3168] p.7 N92-19002
[NASA-SP-7037(266)] p.2 N91-27122	Large space structures and systems in the space station	Effect of afterbody geometry on aerodynamic
Aerospace medicine and biology A continuing	era: A bibliography with indexes	characteristics of isolated nonaxisymmetric afterbodies at
bibliography with indexes (supplement 351)	[NASA-SP-7085(02)] p 18 N91-28191	transonic Mach numbers
[NASA-SP-7011(351)] p 38 N91-27756	The development of the NASA aviation safety reporting	[NASA-TP-3236] p.9 N92-33706
Large space structures and systems in the space station	system	INTERACTIONS
era A bibliography with indexes	[NASA-RP-1114] p 10 N91-70436	Electrical and chemical interactions at Mars Workshop,
[NASA-SP-7085(02)] p 18 N91-28191 Aerospace medicine and biology: A continuing	INFORMATION MANAGEMENT	part 1 [NASA-CP-10093] p.50 N92-30302
bibliography with indexes (supplement 352)	The 1991 Goddard Conference on Space Applications	[NASA-CP-10093] p 50 N92-30302 INTERFERENCE DRAG
[NASA-SP-7011(352)] p 38 N91-28729	of Artificial Intelligence	Applications of a direct/iterative design method to
NASA patent abstracts bibliography: A continuing	[NASA-CP-3110] p 43 N91-22769	complex transonic configurations
bibliography. Section 2: Indexes (supplement 39)	The development of the NASA aviation safety reporting	[NASA-TP-3234] p.8 N92-33484
[NASA-SP-7039(39)-SECT-2] p 48 N91-29088	system	INTERPOLATION
Aeronautical engineering. A nontinuing bibliography with	[NASA-RP-1114] p 10 N91-70436	An efficient HZETRN (a galactic cosmic ray transport
indexes (supplement 268)	INFORMATION RETRIEVAL	code)
[NASA-SP-7037(268)] p 2 N91-30077	NASA Thesaurus supplement. A four part cumulative supplement to the 1988 edition of the NASA Thesaurus.	[NASA-TP-3147] p.51 N92-22218
Earth observations and global change decision making. A special bibliography, 1991.	(Supplement 4)	INTERSTELLAR EXTINCTION Interstellar Dust Contributed Papers
[NASA-SP-7092] p 32 N91-30588	INASA-SP-7064-SUPPL-41 p.47 N91 10804	[NASA-CP-3036] p.48 N91-1489?
Aemspace medicine and biology A continuing		INTERSTELLAR MATTER
	NASA Thesaurus supplement. A four part cumulative	
bibliography with indexes (supplement 353)	NASA Thesaurus supplement. A four part cumulative supplement to the 1988 edition of the NASA Thesaurus.	
bibliography with indexes (supplement 353) [NASA-SP-7011(353)] p 38 N91-31760	NASA Thesaurus supplement A four part cumulative supplement to the 1988 edition of the NASA Thesaurus (supplement 5)	The Interstellar Mediu: 3 External Galaxies. Summaries of contributed papers.
	supplement to the 1988 edition of the NASA Thesaurus	The Interstellar Mediui - 3 External Galaxies, Summanes
[NASA-SP-7011(353)] p.38 N91-31760 Aeronautical engineering A continuing bibliography with indexes (supplement 270)	supplement to the 1988 edition of the NASA Thesaurus (supplement 5)	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p.47 N91-19962	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical engineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuiting bibliography with	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p.47 N91-19962 The development of the NASA aviation safety reporting	The Interstellar Mediui — 1 External Galaxies — Summanes of contributed papers [NASA-CP 3084] — p. 49 — N91-14100 interstellar Dust Contributed Papers [NASA-CP 3036] — p. 48 — N91-14897 INVENTORIES
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical engineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269)	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p.47 N91-19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p.10 N91-70436 [INFORMATION SYSTEMS]	The Interstellar Mediui in Externat Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Oust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 INVENTORIES [NASA-CP 3036] https://doi.org/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1007/10.1
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA:SP-7064-SUPPL-5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA:RP-1114] p. 10 N91-70436 [INFORMATION SYSTEMS] Aeronaulical engineering: A Continuing bibliography with	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA:SP-7064:SUPPL:5] p. 47 N91:19962 The development of the NASA aviation safety reporting system [NASA:RP-1114] p. 10 N91:70436 [INFORMATION SYSTEMS Aeronautical engineering A continuing bibliography with indexes (supplement 267)	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] interstellar Dust Contributed Papers [NASA-CP 3036] in P. 48 N91-14100 [NASA-CP 3036] in P. 48 N91-14897 [NYENTORIES Inventy-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] in P. 46 N91-11591
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical engineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuiting bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354)	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91:19962. The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91:70436. [INFORMATION SYSTEMS Aeronautical engineering. A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92 10001.	The Interstellar Mediu: in Externat Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91:14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91:14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91:11591 INVERSE KINEMATICS
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962. The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436. [INFORMATION SYSTEMS Aeronautical engineering A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001. Space and Earth Science Data Compression.	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91-11591 INVERSE KINEMATICS The validation of a human force model to predict dynamic
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA:SP-7064-SUPPL-5] p. 47 N91-19962. The development of the NASA aviation safety reporting system [NASA:RP-1114] p. 10 N91-70436. [INFORMATION SYSTEMS Aeronautical engineering A Continuing bibliography with indexes (supplement 267) [NASA:SP-7037(267)] p. 2 N92-10001. Space and Earth Science Data Compression Workshop.	The Interstellar Mediu: in Externat Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91:14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91:14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91:11591 INVERSE KINEMATICS
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA:SP-7064-SUPPL:5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA:RP-1114] p. 10 N91-70436 [INFORMATION SYSTEMS Aeronautical engineering A continuing bibliography with indexes (supplement 267) [NASA:SP-7037(267)] p. 2 N92-10001 Space and Earth Science Data Compression Workshop [N. SA:CF-3130] p. 41 N92-12425	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 [NYENTORIES] Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91-11591 [NYERSE KINEMATICS] The validation of a human force model to predict dynamic forces resulting from multi-joint motions
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962. The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436. [NFORMATION SYSTEMS Aeronautical engineering. A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001. Space and Earth Science Data Compression Workshop. [In SA-CF-3130] p. 41 N92-12425. Continuit is improvement. A bibliography with indexes.	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 [INVENTORIES] Twenty-Second Annual NASA Supply and Equipment Management Conterence [NASA-CP 10042] p. 46 N91-11591 [INVERSE KINEMATICS] The validation of a human force model to predict dynamic forces resulting from multi-joint motions [NASA-TP 3206] p. 40 N92-26538 [INVISCID FLOW] Panel methods. An introduction
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 355)	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 [INFORMATION SYSTEMS Aeronautical engineering in A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001 Space and Earth Science Data Compression Workshop [N-SA-CF-3130] p. 41 N92-12425 Continuir us improvement in A bibliography with indexes 1989-1991	The Interstellar Medius in External Galaxies. Summares of contributed papers. [NASA-CP 3084] p. 49 N91-14100. Interstellar Dust. Contributed Papers. [NASA-CP 3036] p. 48 N91-14897. INVENTORIES. Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP 10042] p. 46 N91-11591. INVERSE KINEMATICS. The validation of a human force model to predict dynamic forces resulting from multi-joint motions. [NASA-TP 3206] p. 40 N92-26538. INVISCID FLOW. Panel methods. An introduction. [NASA-TP 2995] c. 5 N9-19058.
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 271) [NASA-SP-7031(271)] p 2 N92-14967	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) {NASA-SP-7064-SUPPL-5} p. 47 N91-19962 The development of the NASA aviation safety reporting system {NASA-RP-1114} p. 10 N91-70436 INFORMATION SYSTEMS Aeronautical engineering A Continuing bibliography with indexes (supplement 267) {NASA-SP-7037(267)} p.2 N92-10001 Space and Earth Science Data Compression Workshop {N-SA-CF-3130} p. 41 N92-12425 Continuir us improvement A bibliography with indexes 1989-1991 {NASA-SP-7097} p. 47 N92-22665	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91-11591 INVERSE KINEMATICS The validation of a human force model to predict dynamic forces resulting from multi-joint motions [NASA-TP 3296] p. 40 N92-26538 INVISCID FLOW Panel methods An introduction [NASA-TP 2995] c. 5 N9-19058 Numerical study of the aerodynamic effects of using
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(3551)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 355) [NASA-SP-7031(271)] p 2 N92-14967 Aerospace medicine and biology A continuing	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 [INFORMATION SYSTEMS Aeronautical engineering in A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001 Space and Earth Science Data Compression Workshop [N-SA-CF-3130] p. 41 N92-12425 Continuir us improvement in A bibliography with indexes 1989-1991	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91-14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91-11591 INVERSE KINEMATICS The validation of a human force model to predict dynamic forces resulting from multi-joint motions [NASA-TP 3206] p. 49 N92-26538 INVISCID FLOW Panel methods An introduction [NASA-TP 2995] Numerical study of the aerodynamic effects of using suffer haxafluoride as a test gas in wind tunnels.
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 271) [NASA-SP-7037(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 371)	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91:19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91:70436 [INFORMATION SYSTEMS Aeronautical engineering A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92:10001 Space and Earth Science Data Compression Workshop [N-SA-CF-3130] p. 41 N92:12425 Continuius improvament A bibliography with indexes 1983-1991 [NASA-SP-7097] p. 47 N92:22665 The development of the NASA aviature cafety reporting	The Interstellar Medius in External Galaxies. Summaries of contributed papers. [NASA-CP 3084] p. 49 N91-14100. Interstellar Dust. Contributed Papers. [NASA-CP 3036] p. 48 N91-14897. INVENTORIES. Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP 10042] p. 46 N91-11591. INVERSE KINEMATICS. The validation of a human force model to predict dynamic forces resulting from multi-joint motions. [NASA-TP 3206] p. 49 N92-26538. INVISCID FLOW. Panel methods. An introduction. [NASA-TP 2985] p. 5 N9-19058. Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP 3086] p. 5 N9-12070.
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 271) [NASA-SP-7037(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 356) [NASA-SP-7031(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 356) [NASA-SP-7011(356)] p 38 N92-15538	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962. The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436. [NEORMATION SYSTEMS Aeronautical engineering A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001. Space and Earth Science Data Compression Workshop N SA CF 3130] p. 41 N92-12425. Continui us improvament. A bibliography with indexes 1989-1991. [NASA-SP-7097] p. 47 N92-22665. The development of the NASA aviature lafety reporting system.	The Interstellar Mediui in External Galaxies Summanes of contributed papers [NASA-CP 3084] p. 49 N91/14100 Interstellar Dust Contributed Papers [NASA-CP 3036] p. 48 N91/14897 INVENTORIES Twenty-Second Annual NASA Supply and Equipment Management Conference [NASA-CP 10042] p. 46 N91/11591 INVERSE KINEMATICS The validation of a human force model to predict dynamic forces resulting from multi-joint motions [NASA-TP 3206] p. 40 N92/26538 INVISCID FLOW Panel methods An introduction [NASA-TP 2995] p. 5 N9/19058 Numerical study of the aerodynamic effects of using sultur hexafluoride as a test gas in winn tunners [NASA-TP 3086] p. 5 N9/12/2010 Numerical analysis and simulation of an assured crew
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 271) [NASA-SP-7037(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 371)	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 INFORMATION SYSTEMS Aeronautical engineering: A continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001 Space and Earth Science Data Compression Workshop [N-SA-CF-3130] p. 41 N92-12425 Continuir us improvement: A bibliography with indexes 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436	The Interstellar Medius in External Galaxies. Summaries of contributed papers. [NASA-CP 3084] p. 49 N91-14100 Interstellar Dust Contributed Papers. [NASA-CP 3035] p. 48 N91-14897 INVENTORIES. Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP 10042] p. 46 N91-11591 INVERSE KINEMATICS. The validation of a human force model to predict dynamic forces resulting from multi-joint motions. [NASA-TP 3206] p. 49 N92-26538 INVISCID FLOW. Panet methods An introduction. [NASA-TP 2985] p. 5 N9-19058 Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP 3086] p. 5 N9-12070
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 371) [NASA-SP-70317(2711)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 356) [NASA-SP-70317(356)] p 38 N92-15538 Aeronautical engineering A continuing bibliography with	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) {NASA-SP-7064-SUPPL-5} p. 47 N91-19962 The development of the NASA aviation safety reporting system {NASA-RP-1114} p. 10 N91-70436 INFORMATION SYSTEMS Aeronautical engineering: A Continuing bibliography with indexes (supplement 267) {NASA-SP-7037(267)} p. 2 N92-10001 Space and Earth Science Data Compression Workshop {N-SA-CF-3130} p. 41 N92-12425 Continui us improvement: A bibliography with indexes 1999-1991 {NASA-SP-7097} p. 47 N92-22665 The development of the NASA aviation (afety reporting system) {NASA-RP-1114} p. 10 N91-70436 INFRARED ASTRONOMY	The Interstellar Medius in External Galaxies. Summaries of contributed papers. [NASA-CP 3084] p. 49 N91-14100. Interstellar Dust. Contributed Papers. [NASA-CP 3036] p. 48 N91-14897. INVENTORIES. Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP 10042] p. 46 N91-11593. INVERSE KINEMATICS. The validation of a human force model to predict dynamic forces resulting from multi-joint motions. [NASA-TP 3206] p. 40 N92-26538. INVISCID FLOW. Panel methods. An introduction. [NASA-TP 3986] p. 5 N9-19058. Numerical study of the aerodynamic effects of using sultur hexaftuoride as a test gas in wind tunnels. [NASA-TP 3086] p. 5 N9-12070. Numerical analysis and simulation of an assured crew return vehicle flow field.
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12402 Aeronautical engineering A continuing bibliography with indexes (supplement 355) [NASA-SP-7031(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 356) [NASA-SP-7031(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 356) [NASA-SP-7031(273)] p 38 N92-15538 Aeronautical engineering A continuing bibliography with indexes (supplement 273) [NASA-SP-7032(273)] p 3 N92-21729 Aeronautical engineering A continuing bibliography with	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 INFORMATION SYSTEMS Aeronautical engineering: A Continuing bibliography with indexes (supplement 267) [NASA-SP-7037(267)] p. 2 N92-10001 Space and Earth Science Data Compression Workshop [N-SA-CF-3130] p. 41 N92-12425 Continuir us improvament: A bibliography with indexes 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviation (afety reporting system [NASA-RP-1114] p. 10 N91-70436 INFRARED ASTRONOMY Interstellar Dust: Contributed Papers [NASA-CP-3036] p. 48 N91-14897 INFRARED RADIATION	The Interstellar Medius in External Galaxies. Summaries of contributed papers. [NASA-CP 3084] p. 49 N91-14100. Interstellar Dust. Contributed Papers. [NASA-CP 3036] p. 48 N91-14897. INVENTORIES. Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP 10042] p. 46 N91-11591. INVERSE KINEMATICS. The validation of a human force model to predict dynamic forces resulting from multi-joint motions. [NASA-TP 3206] p. 40 N92-26538. INVISCID FLOW. Panel methods: An introduction. [NASA-TP 3296] c. 5 N9-19058. Numerical study of the aerodynamic effects of using sultur hexaftuoride as a test gas in wind tunnels. [NASA-TP 3086] p. 5 N91-22070. Numerical analysis and simulation of an assured crew return vehicle flow field. [NASA-TP 310-] p. 26 N92-10161. ION SCATTERING.
[NASA-SP-7011(353)] p 38 N91-31760 Aeronautical ingineering A continuing bibliography with indexes (supplement 270) [NASA-SP-7037(270)] p 2 N92-10973 Aeronautical engineering A continuing bibliography with indexes (supplement 269) [NASA-SP-7037(269)] p 2 N92-10974 Aerospace medicine and biology A continuing bibliography with indexes (supplement 354) [NASA-SP-7011(354)] p 38 N92-12404 Aerospace medicine and biology A continuing bibliography with indexes (supplement 355) [NASA-SP-7011(355)] p 38 N92-12412 Aeronautical engineering A continuing bibliography with indexes (supplement 371) [NASA-SP-7037(271)] p 2 N92-14967 Aerospace medicine and biology A continuing bibliography with indexes (supplement 356) [NASA-SP-7011(356)] p 38 N92-15538 Aeronautical engineering A continuing bibliography with indexes (supplement 273) [NASA-SP-7037(273)] p 3 N92-21729	supplement to the 1988 edition of the NASA Thesaurus (supplement 5) [NASA-SP-7064-SUPPL-5] p. 47 N91-19962 The development of the NASA aviation safety reporting system [NASA-RP-1114] p. 10 N91-70436 [NFORMATION SYSTEMS Aeronautical engineering in A continuing bibliography with indexes (supplement 267) [NASA-SP-70372677] p. 2 N92-10001 Space and Earth Science Data Compression Workshop [N-SA-CE-3130] p. 41 N92-12425 Continuing improvament in Abbliography with indexes 1989-1991 [NASA-SP-7097] p. 47 N92-22665 The development of the NASA aviature cafety reporting system [NASA-RP-1114] p. 10 N91-70436 [INFARRED ASTRONOMY Interstellar Dust Contributed Papers (NASA-CP-3036) p. 48 N91-1489.7	The Interstellar Medius in External Galaxies. Summaries of contributed papers. [NASA-CP 3036] p. 49 N91-14100 Interstellar Dust. Contributed Papers. [NASA-CP 3036] p. 48 N91-14897 INVENTORIES. Twenty-Second Annual NASA Supply and Equipment Management Conference. [NASA-CP 10042] p. 46 N91-11591 INVERSE KINEMATICS. The validation of a human force model to predict dynamic forces resulting from multi-joint motions. [NASA-TP 3206] p. 40 N92-26538 INVISCID FLOW. Panel methods: An introduction. [NASA-TP 3995] p. 5 N9 :19058. Numerical study of the aerodynamic effects of using sultur hexaftuoride as a test gas in wind tunnels. [NASA-TP 3086] p. 5 N9 :22070. Numerical analysis and simulation of an assured crew return vehicle flow field. [NASA-TP 3167] p. 26 N92-10161. ION SCATTERING.

IONIC COLLISIONS	LAMINAR FLOW	Workshop on Squeezed States and Uncertainty
Inclusive inelastic scattering of heavy ions and nucle	Two-dimensional stability of laminar flames	Relations
correlations	[NASA-TP-3131] p 7 N92-17131	[NASA-CP-5135] p.46 N92-22045
[NASA-TP-3026] p 46 N91385 IRRADIATION	LAMINAR FLOW AIRFOILS	Sixteenth il ternational Laser Radar Conference, part 2
Radiation risk predictions for Space Station Freedom	Full-scale semispan tests of a business-jet wing with a natural faminar flow airfoil	[NASA-CP-3158-PT-2] p.28 N92-31013
orbits	[NASA-TP-3133] p 6 N91-30098	LATCHES
[NASA-TP-3098] p 51 N91-26107	LAMINATES	The 25th Aerospace Mechanisms Symposium
	Structural properties of laminated Douglas fir/epoxy	[NASA-CP-3113] p 30 N91-24603
j	composite material	The 26th Aerospace Mechanisms Symposium (NASA-CP-3147) p 30 N92-25067
	[NASA-RP-1236] p 20 N91-10127 Free vibrations of thin-walled semicircular	LATTICE PARAMETERS
J-85 ENGINE	Free vibrations of thin-walled semicircular graphite-epoxy composite frames	Equivalent crystal theory of alloys
J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field	[NASA-TP-3010] p 29 N91-13750	[NASA-TP-3155] p 23 N91-30318
[NASA-TP-3053] p 45 N91-19823	Compression behavior of graphite-thermoplastic and	LAUNCH VEHICLE CONFIGURATIONS Parametric trade studies on a Shuttle 2 launch system
JET AIRCRAFT	graphite-epoxy panels with circular holes or impact	architecture
Full-scale semispan tests of a business jet wing with a	damage	[NASA-TP-3059] p '4 N91-18180
natural laminar flow airfoil	(NASA-TP-3071) p 21 N91-18215	Graphite/epoxy composite adapters for the Space
[NASA-TP-3133] p 6 N91-30098 JET AIRCRAFT NOISE	Properties of three graphite/toughened resin composites	Shuttle/Centaur vehicle
Aeroacoustics of flight vehicles: Theory and practice	[NASA-TP-3102] p 21 N92-10067	(NASA-TP-3014) p 15 N92-31251 LAUNCH VEHICLES
Volume 2: Noise control	Effect of low-speed impact damage and damage location	Launch vehicle integration options for a large Earth
[NASA-RP-1258-VOL-2] p 45 N92-14779	on behavior of composite panels	sciences geostationary platform concept
JET FLOW	[NASA-TP-3196] p 22 N92-23981	[NASA-TP-3083] p.15 N91-27180
Detailed flow-field measurements over a 75 deg swept delta wing	Buckling behavior of long symmetrically laminated plates	Packaging, development, and on-orbit assembly options
[NASA-TP-2997] p.4 N91-18030	subjected to combined loadings [NASA-TP-3195] p 22 N92-25160	for large geostationary spacecraft
JET PROPULSION	(NASA-TP-3195) p 22 N92-25160 LAND MOBILE SATELLITE SERVICE	[NASA-TP-3088] p. 17 N91-27182 Upper stages using liquid propulsion and metallized
Engines and innovation: Lewis Laboratory and American	Propagation effects for land mobile satellite systems.	propellants
propulsion technology	Overview of experimental and modeling results	[NASA-TP-3191] p 20 N92-17151
[NASA-SP-4306] p 51 N91-15975 JET VANES	(NASA-RP-1274) p 25 N92-20404	LAUNCHING
Static thrust-vectoring performance of nonaxisymmetric	LANDING GEAR	Metallized propellants for the numan exploration of
convergent-divergent nozzles with post-exit yaw vanes	Computational methods for inctionless contact with	Mars [NASA-TP-3062] p 19 N91-11800
[NASA-TP-3085] p 5 N91-21059	application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576	LEADING EDGE SWEEP
JOINTS (ANATOMY)	LARGE SPACE STRUCTURES	Planforn hurvature effects on flutter characteristics of
Correlation and prediction of dynamic human isolated	The 5th Annual NASA Spacecraft Control Laboratory	a wing with 56 deg leading-edge sweep and panel aspect
joint strength from lean body mass [NASA-TP-3207] p 40 N92-26682	Experiment (SCOLE) Workshop, part 1	ratio of 1.14
JOINTS (JUNCTIONS)	[NASA-CP-10057-PT-1] p 16 N91-18186	[NASA-TP-3116] p 11 N92-13054
Axisymmetric shell analysis of the space shuttle solid	Large space structures and systems in the space station	LEADING EDGES Evaluation of cloud detection instruments and
rocket booster field joint	era: A bibliography with indexes	performance of laminar-flow leading-edge test articles
[NASA-TP-3033] p 28 N91-14618	[NASA-SP-7085(01)] p 17 N91 18199	during NASA Leading-Edge Flight-Test Program
Cable compliance [NASA-TP-3216] p 24 N92-30378	The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2	[NASA-TP-2888] p 11 N91-24199
JUDGMENTS	[NASA-CP-10057-PT-2] p 17 N91-19122	Modeling of the heat transfer in bypass transitional
Annoyance caused by aircraft en route noise	Fourth NASA Workshop on Computational Control of	boundary-layer flows [NASA-TP-3170] p 27 N92-11299
(NASA-TP-3165) p 45 N92-20479	Flexible Aerospace Systems, part 2	
(NASA-TP-3165) p 45 N92-20479		Wind tunnel investigation of the interaction and breakdown characteristics of slender wing vortices at
	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic transonic, and supersonic speeds.
[NASA-TP-3165] p 45 N92-20479	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transpric, and supersonic speeds [NASA-TP-3114] p.6. N92-12994
	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p.6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p.6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p.6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delfa wing leading-edge vortices and vortex-induced aerodynamics at supersonic
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space stationera. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p.6 N92-12994. Wind tunnel investigation of vortex flows on F7A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p.6 N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7 N92-20038.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111]. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038. A simplified method for thermal analysis of a cowl leading.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F7A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3115]. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-2038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p. 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK	Flexible Aerospace Systems, part 2 [NASA-CP-1065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038 A simplified method for thermal analysis of a cowl-leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797 The natural flow wing-design concept.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p. 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p. 10 N91-19082	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p. 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p. 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p. 30 N92-25067 Automation and Robotics for Space-Based Systems,	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorior, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F7A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-25202. LEAST SQUARES METHOD.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p. 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p. 10 N91-19082	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p. 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p. 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p. 30 N92-25067 Automation and Robotics for Space-Based Systems,	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038. A simplified method for thermal analysis of a cowli leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p. 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p. 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p. 10 N91-19082 Methods of applied dynamics [NASA-RP-1262] p. 24 N91-25303	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorior, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p.4. N91-18031.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1262] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655	Flexible Aerospace Systems, part 2 [NASA-CP-1005-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974	Wind tunnel investigation of the interaction and breakdown characteristics of siender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on FA-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-25202 LEAST SQUARES METHOD Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p. 4. N91-18031. Correlation and prediction of dynamic human isolated.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-2317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic, transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsorioic through transonic speed. [NASA-TP-3111] p 6 N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p 4 N91-18031 Correlation and prediction of dynamic human isolated joint strength from lean body mass.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1262] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p. 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p. 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p. 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p. 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p. 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p. 31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038. A simplified method for thermal analysis of a cowli leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p.4. N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3007] p.4. N92-26682.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Celtillar repair/misrepair track model [NASA-TP-3124] p 42 N92-11685	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-2317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsoric, transprinc, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F7A-18 configuration at subsoric through transprince speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p.4. N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p.40. N92-26682. LESIONS.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE)	Flexible Aerospace Systems, part 2 [NASA-CP-1005-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038. A simplified method for thermal analysis of a cowli leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p.4. N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3007] p.4. N92-26682.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Celtillar repair/misrepair track model [NASA-TP-3124] p 42 N92-11685	Flexible Aerospace Systems, part 2 [NASA-CP-1065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p 18 N92-11087 Targe space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038 A simplified method for thermal analysis of a cowil leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-2502 LEAST SQUARES METHOD Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-305). Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p. 40. N92-26682 LESIONS Multiple lesion track structure model.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1262] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-116590 KNOWLEDGE REPRESENTATION	Flexible Aerospace Systems, part 2 [NASA-CP-1005-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-21087 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1931 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-314] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 Laser anemometer measurements and computations in an anular cascade of high turning core turbine vanes [NASA-TP-3252] p.8 N92-28980	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038 A simplified method for thermal analysis of a cowelleading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-25202 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025). Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-307] p. 40. N92-26682 LESIONS. Multiple lesion track structure model. [NASA-TP-3185] p. 39. N92-22186 LETHALITY Cellular repair/misrepair track model.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Seuond CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VCL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Innference on Space Applications	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p. 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p. 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-SP-7085(02)] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p. 18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p. 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p. 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p. 31 N92-27974 [LASER ANEMOMETERS] Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3080] p.8 N92-28960 [LASER APPLICATIONS]	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038. A simplified method for thermal analysis of a cowli leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p. 4. N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3007] p. 40. N92-26682. LESIONS. Multiple lesion track structure model. [NASA-TP-3185] p. 39. N92-22186. LETHALLTY. Cellular repair/misrepair track model. [NASA-TP-3124] p. 42. N92-11685.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Celtiular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CUPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda onference on Space Applications of Artificial Intellinge	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1931 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p.8 N92-28980 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsoriic through transonic speed {NASA-TP-3111} p 6 N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038 A simplified method for thermal analysis of a cowli leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025) p 4 N91-18031 Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p 40 N92-26682 LESIONS Multiple lesion track structure model. [NASA-TP-3185] p 39 N92-22186 LETHALITY Cellular repair/misrepair track model. [NASA-TP-3124] p 42 N92-11685 LEWIS NUMBERS
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-RP-1252] p 34 N92-32655 KINETICS Celtillar repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Inference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p. 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p. 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-SP-7085(02)] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p. 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p. 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p. 31 N92-27974 [LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p. 5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3262] p. 8 N92-28960 [LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p. 14 N92-30307 [LASER DOPPLER VELOCIMETERS	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transportic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transport speeds. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method parts of the property of the
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K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-RP-1252] p 34 N92-32655 KINETICS Celtillar repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Inference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-2317 The 26th Aerospace Mechanisms Symposium [NASA-SP-7085(03)] p.18 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3252] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p.8 N92-28980 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER DOPPLER VELOCIMETERS Three-component laser anemometer measurement systems	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed {NASA-TP-3111} p 6 N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202 LEAST SQUARES METHOD Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025). p 4 N91-18031 Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3185] p 39 N92-22186 LESIONS Multiple lesion track structure model. [NASA-TP-3185] p 39 N92-22186 LETHALITY Cellular repair/misrepair track model. [NASA-TP-3124] p 42 N92-11685 LEWIS NUMBERS Two-dimensional stability of laminar flames. [NASA-TP-3131]
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Inference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-SP-7085(02)] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p 18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p 30 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27774 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3214] p 5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes (NASA-TP-3252) p 8 N92-28980 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 LASER DOPPLER VELOCIMETERS Three-component laser anemometer measurement	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038 A simplified method for thermal analysis of a cowil leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202 LEAST SQUARES METHOD Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025). Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-307] p.4. N91-18031 Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3185] p.3.9. N92-25682 LESIONS Multiple lesion track structure model. [NASA-TP-3185] p.3.9. N92-2186 LETHALITY Cellular repair/misrepair track model. [NASA-TP-3124] LEWIS NUMBERS Two-dimensional stability of laminar flames. [NASA-TP-3131] LIFE (DURABILITY). Structural integrity and Durability of Reusable Space.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Inference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes (NASA-TP-3080) p.5 N91-19057 Laser APPLICATIONS Three-dimensional laser window formation [NASA-TP-3080] p.14 N92-30307 LASER DOPPLER VELOCIMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic, transportic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsorioic through transport speeds. [NASA-TP-3111] p 6 N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p 4 N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p 40 N92-26682 LESIONS. Multiple lesion track structure model. [NASA-TP-3124] p 99 N92-22186 LETHALITY. Cellular repair/misrepair track model. [NASA-TP-3131] p 7 N92-17131 LIFE (DURABILITY). Structural Integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p 19 N91-24307
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Seuond CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda onference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1 [NASA-CP-10085-VOL-1] p 42 N92-16568	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p.30 N92-25763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3252] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p.8 N92-28960 LASER APPLICATIONS Three-component laser window formation [NASA-RP-1280] p.14 N92-30307 LASER DOPPLER VELOCIMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsorioic through transonic speed. [NASA-TP-3111] p 6 N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038 A simplified method for thermal analysis of a cowll leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797 The natural flow wing-design concept. [NASA-TP-3167] p 7 N92-2502 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p 4 N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3185] p 39 N92-26682 LESIONS Multiple lesion track structure model. [NASA-TP-3185] p 39 N92-2186 LETHALITY Cellular repair/misrepair track model. [NASA-TP-3131] p 7 N92-17131 LIEE (DURABILITY). Structural Integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p 19 N91-24307 LIFE SCIENCES
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-RP-1252] p 34 N92-32655 KINETICS Celfular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda indefence on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1 [NASA-CP-10085-VOL-1] p 42 N92-16568	Flexible Aerospace Systems, part 2 [NASA-CP-1065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p 18 N92-11087 The 26th Aerospace Mechanisms Symposium [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Laser Anemometers Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28960 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed. [NASA-TP-3111] p. 6. N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7. N92-20038 A simplified method for thermal analysis of a cowil leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27. N92-24797 The natural flow wing-design concept. [NASA-TP-3193] p.7. N92-25202 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025). Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-307] p.4. N91-18031 Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3185] p.39. N92-22186 LETHALITY Cellular repair/misrepair track model. [NASA-TP-3124] p.42. N92-11685. LEWIS NUMBERS. Two-dimensional stability of laminar flames. [NASA-TP-3131] p.7. N92-17131. LIFE (DURABILITY). Structural integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p.19. N91-24307. LIFE SCIENCES. Fourth. Annual. Workshop on. Space. Operations.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Cellular repair/misrepair track model [NASA-TP-3274] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Inference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1 [NASA-CP-10085-VOL-1] p 42 N92-16568	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-2317 The 26th Aerospace Mechanisms Symposium [NASA-SP-7085(03)] p.18 N92-2317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p.43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3252] p.3 N92-28980 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER DOPPLER VELOCIMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER WINDOWS	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsorioic through transonic speed. [NASA-TP-3111] p 6 N92-14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038 A simplified method for thermal analysis of a cowll leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797 The natural flow wing-design concept. [NASA-TP-3167] p 7 N92-2502 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3025] p 4 N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3185] p 39 N92-26682 LESIONS Multiple lesion track structure model. [NASA-TP-3185] p 39 N92-2186 LETHALITY Cellular repair/misrepair track model. [NASA-TP-3131] p 7 N92-17131 LIEE (DURABILITY). Structural Integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p 19 N91-24307 LIFE SCIENCES
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-RP-1252] p 34 N92-32655 KINETICS Celfular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda indefence on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1 [NASA-CP-10085-VOL-1] p 42 N92-16568	Flexible Aerospace Systems, part 2 [NASA-CP-1065-PT-2] p 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p 18 N92-11087 The 26th Aerospace Mechanisms Symposium [NASA-SP-7085(03)] p 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Laser Anemometers Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28960 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p 14 N92-30307 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p 5 N91-19057	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p. 6. N92-12994. Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed {NASA-TP-3111} p. 6. N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p. 7. N92-20038. A simplified method for thermal analysis of a cowli leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p. 27. N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p. 7. N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025]. p. 4. N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p. 40. N92-26682. LESIONS. Multiple lesion track structure model. [NASA-TP-3185] p. 39. N92-22186. LETHALITY. Cellular repair/misrepair track model. [NASA-TP-3124] p. 42. N92-11685. LEWIS NUMBERS. Two-dimensional stability of laminar flames. [NASA-TP-3131] p. 7. N92-17131. LIFE (DURABILITY). Structural integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p. 19. N91-24307. LIFE SCIENCES. Fourth Annual Workshop on Space. Operations.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655 KINETICS Celtiular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda Inference on Space Applications of Artificial intelling [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1 [NASA-CP-10085-VOL-1] p 42 N92-16568 L LAGRANGE MULTIPLIERS Technique to eliminate computational instability in multibody simulations employing the Lagrange multiplier	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p.30 N92-25763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-2774 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3252] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes (NASA-TP-3252) p.8 N92-28960 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER DOPPLER VELOCIMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER WINDOWS Three-dimensional laser window formation	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsonic, transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed {NASA-TP-3111} p 6 N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025]. p 4 N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p 40 N92-26682. LESIONS. Multiple lesion track structure model. [NASA-TP-3185] p 39 N92-22186. LEHALITY. Cellular repair/misrepair track model. [NASA-TP-3124] p 42 N92-11685. LEWIS NUMBERS. Two-dimensional stability of laminar flames. [NASA-TP-3131] p 7 N92-17131. LIFE (DURABILITY). Structural Integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-3103-VQL-1] p 41 N91-20641. Aerospace medicine and biology A continuing bibliography with indexes (supplement 357).
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetism Part 1	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controllied space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p.30 N92-25763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3280] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3280] p.14 N92-30307 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed {NASA-TP-3111} p 6 N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3193]. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p 40 N92-26682. LESIONS. Multiple lesion track structure model. [NASA-TP-3124] p 39 N92-21665. LETHALITY. Cellular repair/misrepair track model. [NASA-TP-3124] p 42 N92-11685. LEWIS NUMBERS. Two-dimensional stability of laminar flames. [NASA-TP-3131] p 7 N92-17131. LIFE (DURABILITY). Structural Integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p 19 N91-24307. LIFE SCIENCES. Fourth Annual Workshop on Space. Operations. Applications and Research (SOAR 90). [NASA-CP-10030] p 49 N92-21164. Aerospace medicine and biology. A continuing biolography with indexes (supplement 357). [NASA-SP-7011(357)] p 39 N92-2114.
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetic chaos [NASA-RP-1252] p 34 N92-32655 KINETICS Celtular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 KNOWLEDGE BASES (ARTIFICIAL INTELLIGENCE) Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590 KNOWLEDGE REPRESENTATION The 1991 Godda inference on Space Applications of Artificial Intellige [NASA-CP-3110] p 43 N91-22769 Second CLIPS Conference Proceedings, volume 1 [NASA-CP-10085-VOL-1] p 42 N92-16568 L LAGRANGE MULTIPLIERS Technique to eliminate computational instability in multibody simulations employing the Lagrange multiplier (NASA-TP-3220) p 42 N92-23432 LAMINAR BOUNDARY LAYER Evaluation of cloud detection instruments and performance of iaminar-flow leading edge test articles	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p. 17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p. 17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p. 18 N91-28191 Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p. 18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p. 18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p. 18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p. 30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p. 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p. 31 N92-27974 [LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3262] p.8 N92-28960 [LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.5 N91-19057 [LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 [LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.4 N92-30307 [LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 [LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 [LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 [LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 [LASER WINDOWS]	Wind tunnel investigation of the interaction and breakdown characteristics of siender wing vortices at subsonic, transportic, and supersonic speeds. [NASA-TP-3114] p.6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transport speed. [NASA-TP-3111] p.6 N92-14968 Influence of airfoil geometry on delta wing leading-egge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p.7 N92-20038 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p.27 N92-24797 The natural flow wing-design concept. [NASA-TP-3131] p.7 N92-25202 LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method point strength from lean body mass. [NASA-TP-3207] p.4 N91-18031. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p.40 N92-26682. LESIONS. Multiple lesion track structure model. [NASA-TP-3185] p.39 N92-22186. LETHALITY. Cellular repair/misrepair track model. [NASA-TP-3131] p.7 N92-17131. LIFE (DURABILITY). Structural integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-3103-VQL-1] p.41 N91-20641. Aerospace medicine and biology. A continuing biolography with indexes (supplement 357]. [NASA-SP-7011(357)]. Aerospace medicine and biology. A continuing biolography with indexes (supplement 357]. Aerospace medicine and biology. A continuing biolography with indexes (supplement 357].
K-EPSILON TURBULENCE MODEL Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 KALMAN FILTERS A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 KINEMATICS State estimation applications in aircraft flight-data analysis: A user's manual for SMACK [NASA-RP-1252] p 10 N91-19082 Methods of applied dynamics [NASA-RP-1252] p 24 N91-25303 Steady induction effects in geomagnetism Part 1A: Steady motional induction of geomagnetism Part 1	Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p.17 N91-22331 Packaging, development, and on-orbit assembly options for large geostationary spacecraft [NASA-TP-3088] p.17 N91-27182 Large space structures and systems in the space station era. A bibliography with indexes [NASA-SP-7085(02)] p.18 N91-28191 Multidisciplinary optimization of controllied space structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-TP-3130] p.18 N92-211087 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p.18 N92-22317 The 26th Aerospace Mechanisms Symposium [NASA-CP-3147] p.30 N92-25067 Automation and Robotics for Space-Based Systems, 1991 [NASA-CP-3147] p.30 N92-25763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p.31 N92-27974 LASER ANEMOMETERS Three-component laser anemometer measurement systems [NASA-TP-3280] p.5 N91-19057 Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3280] p.14 N92-30307 LASER APPLICATIONS Three-dimensional laser window formation [NASA-RP-1280] p.5 N91-19057 LASER INTERFEROMETRY Three-component laser anemometer measurement systems [NASA-TP-3080] p.5 N91-19057 LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307 LASER WINDOWS Three-dimensional laser window formation [NASA-RP-1280] p.14 N92-30307	Wind tunnel investigation of the interaction and breakdown characteristics of stender wing vortices at subsorioic transonic, and supersonic speeds. [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed {NASA-TP-3111} p 6 N92-14968. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic speeds. [NASA-TP-3105] p 7 N92-20038. A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating. [NASA-TP-3167] p 27 N92-24797. The natural flow wing-design concept. [NASA-TP-3193] p 7 N92-25202. LEAST SQUARES METHOD. Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method. [NASA-TP-3193]. Correlation and prediction of dynamic human isolated joint strength from lean body mass. [NASA-TP-3207] p 40 N92-26682. LESIONS. Multiple lesion track structure model. [NASA-TP-3124] p 39 N92-21665. LETHALITY. Cellular repair/misrepair track model. [NASA-TP-3124] p 42 N92-11685. LEWIS NUMBERS. Two-dimensional stability of laminar flames. [NASA-TP-3131] p 7 N92-17131. LIFE (DURABILITY). Structural Integrity and Durability of Reusable Space. Propulsion Systems. [NASA-CP-10030] p 19 N91-24307. LIFE SCIENCES. Fourth Annual Workshop on Space. Operations. Applications and Research (SOAR 90). [NASA-CP-10030] p 49 N92-21164. Aerospace medicine and biology. A continuing biolography with indexes (supplement 357). [NASA-SP-7011(357)] p 39 N92-2114.

Fifth Annual Workshop on Space Operations	The	*******
Applications and Research (SOAR 1991), volume 2	The effect of acceleration versus displacement methods on steady-state boundary forces	LUNAR BASES
[NASA-CP-3127-VOL-2] p 41 N92-22324	[NASA-TP-3218] p 30 N92-21457	Lunar missions using chemical propulsion. System design issues
LDEF: 69 Months in Space. First Post-Retneval	Stiffness and strength tailoring in uniform space-filling	[NASA-TP-3085] p.19 N91-15308
Symposium, part 2	truss structures	LUNAR SURFACE
[NASA-CP-3134-PT-2] p 52 N92-24806	[NASA-TP-3210] p 30 N92-24546	Radiation protection for human missions to the Moon
Aerospace medicine and biology: A continuing	Buckling behavior of long symmetrically laminated plates	and Mars
bibliography with indexes (supplement 362)	subjected to combined loadings	[NASA-TP-3079] p 50 N91-17999
[NASA-SP-7011(362)] p 39 N92-27068	[NASA-TP-3195] p 22 N92-25160	
LDEF: 69 Months in Space. First Post-Retrieval	Effect of type of load on stress analysis of thin-walled	44
Symposium, part 3	ducts	M
[NASA-CP-3134-PT-3] p 52 N92-27083	[NASA-TP-3248] p 31 N92-26669	
Aerospace medicine and biology: A continuing	LC GIC CIRCUITS Proceedings of the Second Joint Technology Workshop	MACH NUMBER
bibliography with indexes (supplement 361)	on Neural Networks and Fuzzy Logic, volume 1	Experimental investigation of porous-floor effects on
[NASA-SP-7011(361)] p 39 N92-27433	(NASA-CP-10061-VOL-1) p 43 N91-21778	cavity flow fields at supersonic speeds
Aeronautical engineering: A continuing bibliography with indexes (supplement 275)	LOGIC DESIGN	[NASA-TP-3032] p.5 N91-19042
(NASA-SP-7037(275)) p.3 N92-28679	NASA Formal Methods Workshop, 1990	Effects of yaw angle and Reynolds number on
Aerospace medicine and biology: A continuing	[NASA-CP-10052] p 42 N91-17559	rectangular-box cavities at subsonic and transonic speeds
bibliography with indexes (supplement 363)	LOGISTICS	[NASA-TP-3099] p.5 N91-27124
[NASA-SP-7011(363)] p 39 N92-30987	Twenty-Second Annual NASA Supply and Equipment	Parametric investigation of single-expansion-ramp
The effects of video compression on acceptability of	Management Conference	nozzies at Mach numbers from 0.60 to 1.20
images for monitoring life sciences experiments	[NASA-CP-10042] p 46 N91-11591	[NASA-TP-3240] p.9 N92-34193
(NASA-TP-3239) p 16 N92-33933	LONG DURATION EXPOSURE FACILITY	MAGNETIC BEARINGS
LIFE SUPPORT SYSTEMS	Long-term orbital lifetime predictions [NASA-TP-3058] p.13 N91-10092	Aerospace Applications of Magnetic Suspension
Aerospace medicine and biology: A continuing	[NASA-TP-3058] p. 13 N91-10092 First LDEF Post-Retneval Symposium abstracts	Technology, part 2
bibliography with indexes (supplement 343)	(NASA-CP-10072) p 52 N91-24972	[NASA-CP-10066-PT-2] p 17 N91-21203
[NASA-SP-7011(343)] p 37 N91-14711 LIFTING REENTRY VEHICLES	LDEF: 69 Months in Space. First Post-Retrieval	International Symposium on Magnetic Suspension
Numerical analysis and simulation of an assured crew	Symposium, part 1	Technology, part 1
return vericle flow field	[NASA-CP-3134-PT-1] p 52 N92-23280	[NASA-CP-3152-PT-1] p 18 N92-27721
[NASA-TP-3101] p 26 N92-10161	LOEF: 69 Months in Space First Post-Retrieval	International Symposium on Magnetic Suspension
LIFTING ROTORS	Symposium, part 2	Technology, part 2
Transonic flow analysis for rotors. Part 3:	[NASA-CP-3134-PT-2] p 52 N92-24806	[NASA-CP-3152-PT-2] p 18 N92-27788
Three-dimensional, quasi-steady, Euler calculation	LDEF: 69 Months in Space First Post-Retrieval	MAGNETIC CONTROL
[NASA-TP-2375] p.3 N91-10007	Symposium, part 3	International Symposium on Magnetic Suspension
LIGHTNING	(NASA-CP-3134-PT-3) p 52 N92-2-083	Technology, part 1
The 1991 International Aerospace and Ground	Second LDEF Post-Retrieval Symposium abstracts (NASA-CP-10097) p 52 N92-27218	[NASA-CP-3152-PT-1] p 18 N92-27721
Conference on Lightning and Static Electricity, volume 1	LONG DURATION SPACE FLIGHT	MAGNETIC EFFECTS
[NASA-CP-3106-VOL-1] p 35 N91-32599 The 1991 International Aerospace and Ground	Workshop on Exercise Prescription for Long-Duration	Steady induction effects in geomagnetism. Part 1A:
Conference on Lightning and Static Electricity, volume 2	Space Flight	Steady motional induction of geomagnetic chaos [NASA-TP-3272-PT-1A] p 34 N92-32655
[NASA-CP-3106-VOL-2] p 36 N91-32693	[NASA-CP-3051] p 36 N91-10574	· · · · · · · · · · · · · · · · · · ·
LIGHTNING SUPPRESSION	LONG TERM EFFECTS	MAGNETIC FLUX Steady induction effects in geomagnetism. Part 1A.
The 1991 International Aerospace and Ground	Long-term orbital lifetime predictions	Steady motional induction of geomagnetic chaos
Conference on Lightning and Static Electricity, volume 1	(NASZ-TP-3058) p 13 N91-10092	[NASA-TP-3272-PT-1A] p 34 N92-32655
[NASA-CP-3106-VOL-1] p 35 N91-32599	First LDEF Post-Retneval Symposium abstracts	MAGNETIC INDUCTION
LIMB DARKENING	[NASA-CP-10072] p 52 N91-24972	Steady induction effects in geomagnetism. Part 1A:
Limb-darkening functions as derived from along-track	LONGITUDINAL STABILITY	Steady motional induction of geomagnetic chaos
operation of the ERBE scanning radiometers for August	Longitudinal aerodynamic characteristics of a subsonic,	[NASA-TP-3272-PT-1A] p 34 N92-32655
1985 (NASA DE 1942)	energy-efficient transport configuration in the National	MAGNETIC LEVITATION VEHICLES
[NASA-RP-1243] p 34 N91-14683 LINEAR ENERGY TRANSFER (LET)	Transonic Facility	International Symposium on Magnetic Suspension
Track structure model of cell damage in space flight	[NASA-TP-2922] p 6 N91-28143	Technology, part 1
[NASA-TP-3235] p 39 N92-34154	LOUDNESS	[NASA-CP-3152-PT-1] p 18 N92-27721
LINEAR SYSTEMS	A loudness calculation procedure applied to shaped	MAGNETIC MEASUREMENT
A methodology for computing uncertainty bounds of	sonic booms [NASA-TP-3134] p 45 N92-11765	A scheme for bandpass filtering magnetometer
multivariable systems based on sector stability theory	LOW SPEED	measurements to reconstruct tethered satellite skiprope
concepts	Low-speed, powered ground effects of a generic,	motion (NASA-TP-3123) p 42 N91-25629
[NASA-TP-3166] p 13 N92-21410	hypersonic configuration	(NASA-TP-3123) p 42 N91-25629 MAGNETIC SUSPENSION
Identification of linear systems by an asymptotically	[NASA-TP-3092] p 5 N91-25103	Aerospace Applications of Magnetic Suspension
stable observer [NASA-TP-3164] p 31 N92-26537	Full-scale semispan tests of a business-jet wing with a	Technology, part 1
LININGS	natural laminar flow airfoil	[NASA-CP-1008A-PT-1] p 17 N91-21188
Liminus		
Large-scale aeroacoustic research feasibility and	[NASA-TP-3133] p 6 N91-30098	
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-	[NASA-TP-3133] p.6 N91-30098 NACA 0015 wing pressure and trailing vortex	Aerospace Applications of Magnetic Suspension
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel	NACA 0015 wing pressure and trailing vortex measurements	
conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel {NASA-TP-3020} p 45 N91-19824	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Ci-10066-PT-2] p.17 N91-21203 International Symposium on Magnetic Suspension
conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p.6. N92-10981 Effect of low-speed impact damage and damage location.	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Cir-10066-PT-2] p.17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1
conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel {NASA-TP-3020} p 45 N91-19824 High-temperature durability considerations for HSCT combustor	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p.6. N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Cr10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721
conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel {NASA-TP-3020} p.45 N91-19824 High-temperature durability considerations for HSCT combustor {NASA-TP-3162} p.23 N92-17070	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Cr-10066-PT-2] p.17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p.18 N92-27721 International Symposium on Magnetic Suspension
conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor INASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION	Aerospace Applications of Magnetic Suspension Technology, part 2 {NASA-Cr10066-PT-2} p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 {NASA-CP3152-PT-1} p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Cr-1066-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-10066-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-GP-3152-PT-2] p 18 N92-27768 MAGNETOPLASMADYNAMICS
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CF-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Cr-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CF-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-Gr-3152-PT-2] p 18 N92-27768 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-Gr-10084] p 20 N92-10044 MAINTENANCE
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-Gr-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-Gr-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CF-10066-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10064] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CF-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic: Thruster Workshop [NASA-CP-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing procedure to evaluate advanced lubricants	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-1006-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-Gr-3152-PT-2] p 18 N92-27768 Magnetoplasmadynamic Thruster Workshop [NASA-Gr-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Evendommentals of fluid lubrication	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CP-1006e-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAR ENVIRONMENT INTERACTIONS
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION	Aerospace Applications of Magnetic Suspension Technology, part 2 {NASA-CF-10066-PT-2} p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 {NASA-CP-3152-PT-1} p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 {NASA-CP-3152-PT-2} p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material {NASA-RP-1236} p 20 N91-10127 Reliability training {NASA-RP-1253} p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Climate Impact of Solar Variability {NASA-CP-3086} p 50 N91-12456
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-TP-3255] p 28 N91-30531 Development of a full-scale transmission testing	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-1006-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-Gr-3152-PT-2] p 18 N92-27788 Magnetoplasmadynamic Thruster Workshop [NASA-Gr-3108-4] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite matenal [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Chmate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES)	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced fubricants [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced fubricants	Aerospace Applications of Magnetic Suspension Technology, part 2 {NASA-CF-10066-PT-2} p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 {NASA-CP-3152-PT-1} p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 {NASA-CP-3152-PT-2} p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material {NASA-RP-1236} p 20 N91-10127 Reliability training {NASA-RP-1253} p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Climate Impact of Solar Variability {NASA-CP-3086} p 50 N91-12456
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHUM SULFUR BATTERES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced fubricants [NASA-RP-1255] p 28 N91-30531	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-Gr-3152-PT-2] p 18 N92-27788 Magnetoplasmadynamic Thruster Workshop [NASA-Gr-3152-PT-2] p 20 N92-10044 Maintenance Structural properties of laminated Douglas fir/epoxy composite matenal [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1233] p 15 N92-32458 MAN ENVIRONMENT INTERACTIONS Chmate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Salety/Automation Program Conference [NASA-CP-3090] p 9 N91-10938 Cable compliance
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHUM SULFUR BATTERES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2983] p 10 N91-17014 LOADS (FORCES)	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-RP-3265] p 28 N92-30396 LUBRICATION	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CP-3066-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27768 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Climate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Cable compliance [NASA-TP-3216] p 24 N92-30378
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2983] p 10 N91-17014 LOADS (FORCES) Research in Structures, Structural Dynamics and	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUMINAIRES Long-term life testing of Geostationary Operational	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CF-1066-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10064] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Chmate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Salety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Cable compliance [NASA-CP-3091] p 24 N92-30378 MAN-COMPUTER INTERFACE
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios for three type 7 arcraft tires [NASA-TP-2983] p 10 N91-17014 LOADS (FORCES) Research in Structures, Structural Dynamics and Materials, 1990	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUMINAIRES Long-term life testing of Geostationary Operational Environmental Satellife (GOES) encoder lamps	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-10066-PT-2] p 17 N91-21203 international Symposium on Magnetic Suspension Technology, part 1 [NASA-Gr-3152-PT-1] p 18 N92-27721 international Symposium on Magnetic Suspension Technology, part 2 [NASA-Gr-3152-PT-2] p 18 N92-27788 Magnetoplasmadynamic Thruster Workshop [NASA-Gr-3152-PT-2] p 18 N92-27788 Magnetoplasmadynamic Thruster Workshop [NASA-Gr-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite matenal [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1236] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Chmate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Salety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Cable compliance [NASA-TP-3216] p 24 N92-30378 MAN-COMPUTER INTERFACE Aviation Salety/Automation Program Conference
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHUM SULFUR BATTERES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2883] p 10 N91-17014 LOADS (FORCES) Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p 29 N91-10301	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUMINAIRES Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps [NASA-RP-1273] p 23 N92-20063	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CP-31056-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27768 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Climate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 [NASA-CP-3090] p 9 N91-10936 MAN-COMPUTER INTERFACE Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32245 LITHIUM SULFUR BATTERIES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2983] p 10 N91-17014 LOADS (FORCES) Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p 29 N91-10301 Effect of crash pulse shape on seat stroke requirements	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 LWINIAIRES Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps {NASA-RP-1273} p 23 N92-20063 LUMINOSITY	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-Gr-10066-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 Magnetiologism and Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 Magnetoplasmadynamic Thruster Workshop [NASA-CP-10064] p 20 N92-10044 MaINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Climate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Cable compliance [NASA-CP-3090] p 24 N92-30378 MAN-COMPUTER INTERFACE Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 Fourth Annual Workshop on Space Operations
conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 High-temperature durability considerations for HSCT combustor [NASA-TP-3162] p 23 N92-17070 LIQUID CRYSTALS Positron lifetime measurements in chiral nematic liquid crystals [NASA-TP-3122] p 46 N92-10677 LIQUID PROPELLANT ROCKET ENGINES Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 [NASA-CP-3163-PT-2] p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 [NASA-CP-3163-PT-1] p 27 N92-32278 LITHUM SULFUR BATTERES The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130 LOAD DISTRIBUTION (FORCES) Static footprint local forces, areas, and aspect ratios for three type 7 aircraft tires [NASA-TP-2883] p 10 N91-17014 LOADS (FORCES) Research in Structures, Structural Dynamics and Materials, 1990 [NASA-CP-3064] p 29 N91-10301	NACA 0015 wing pressure and trailing vortex measurements [NASA-TP-3151] p 6 N92-10981 Effect of low-speed impact damage and damage location on behavior of composite panels [NASA-TP-3196] p 22 N92-23981 LOW THRUST PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 LUBRICANT TESTS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATING OILS Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUBRICATION Fundamentals of fluid lubrication [NASA-RP-1255] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N91-30531 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] p 28 N92-30396 LUMINAIRES Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps [NASA-RP-1273] p 23 N92-20063	Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CP-31056-PT-2] p 17 N91-21203 International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27768 MAGNETOPLASMADYNAMICS Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 MAINTENANCE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 Reliability training [NASA-RP-1253] p 15 N92-32456 MAN ENVIRONMENT INTERACTIONS Climate Impact of Solar Variability [NASA-CP-3086] p 50 N91-12456 MAN MACHINE SYSTEMS Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936 [NASA-CP-3090] p 9 N91-10936 MAN-COMPUTER INTERFACE Aviation Safety/Automation Program Conference [NASA-CP-3090] p 9 N91-10936

Human Machine Interfaces for Teleoperators and Virtual	MATERIALS HANDLING	MECHANICAL PROPERTIES
Environments Conference [NASA-CP-10071] p.40 N92-11638	Space Station Freedom Toxic and Reactive Materials Handling	Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design part 1
MANAGEMENT	[NASA-CP-3085] p 48 N91-15930	[NASA-CP-3087-PT-1] p.22 N92 32513
Management. A bibliography for NASA managers	MATERIALS SCIENCE	MESOSPHERE
[NASA-SP-7500(25)] p 46 N91-24936 Management: A bibliography for NASA managers	The Federal Conference on Intelligent Processing	Sixteenth International Laser Radar Conference, part. 2
[NASA-SP-7500(26)] p 47 N92-27080	Equipment [NASA-CP-3138] p 52 N92-24987	[NASA-CP-3158-PT-2] p.28 N92 31013
MANAGEMENT METHODS	MATHEMATICAL MODELS	METAL AIR BATTERIES
Twenty-Second Annual NASA Supply and Equipment	Structural properties of laminated Douglas fir/epoxy	The 1991 NASA Aerospace Battery Workshop
Management Conference	composite material	[NASA-CP-3140] p 33 N92-22740
[NASA-CP-10042] p 46 N91-11591 issues in NASA program and project management	[NASA-RP-1236] p 20 N91-10127 NASA Computational Fluid Dynamics Conference	METAL HYDRIDES
[NASA-SP-6101(03)] p 46 N91-13347	Volume 1: Sessions 1-6	The interaction of hydrogen with metal alloys [NASA:TP-3128] p.23 N91 29318
Management: A bibliography for NASA managers	[NASA-CP-10038-VOL-1] p 4 N91-10839	METAL PROPELLANTS
[NASA-SP-7500(25)] p 46 N91-24936	Failure behavior of generic metallic and composite	Metallized propellants for the human exploration of
Proceedings of the Second Annual NASA Science Internet User Working Group Conference	aircraft structural components under crash loads	Mars
[NASA-CP-3117] p 48 N91-27009	[NASA-RP-1239] p 29 N91-13751 The 5th Annual NASA Spacecraft Control Laboratory	[NASA-TP-3062] p.19 N91-11800
Issues in NASA program and project management	Experiment (SCOLE) Workshop, part 1	Lunar missions using chemical propulsion. System design issues.
[NASA-SP-6101(04)] p 46 N91-28026	[NASA-CP-10057-PT-1] p 16 N91-18186	[NASA-TP-3065] p.19 N91-15306
Management: A bibliography for NASA managers JNASA-SP-7500(26)] p 47 N92-27080	The 5th Annual NASA Spacecraft Control Laboratory	Upper stages using liquid propulsion and metallized
issues in NASA program and project management	Experiment (SCOLE) Workshop, part 2 {NASA-CP-10057-PT-2} p.17 N91-19122	propellants
[NASA-SP-6101(05)] p 47 N92-27609	Numerical studies of convective cooling for a locally	[NASA-TP-3191] p 20 N92-17151
MANAGEMENT PLANNING	heated skin	METALLURGY
Management. A bibliography for NASA managers	[NASA-TP-3100] p 26 N91-22509	National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and
[NASA-SP-7500(25)] p 46 N91-24936 Management: A bibliography for NASA managers	Model reduction by trimming for a class of semi-Markov	Technology
[NASA-SP-7500(26)] p 47 N92-27080	reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741	[NASA-CP-3151] p 24 N92-30263
MANEUVERABILITY	Development of an integrated aeroservoelastic analysis	METALS
Prediction of effects of wing contour modifications on	program and correlation with test data	Structural deterministic safety factors selection criteria
low-speed maximum lift and transonic performance for the	[NASA-TP-3120] p.2 N91-26113	and verification (NASA-TP-3203) p.30 N92-19355
EA-6B aircraft [NASA-TP-3046] p.4 N91-10902	Shock wave interaction with an abrupt area change	(NASA-TP-3203) p 30 N92-19355 METEOROLOGICAL PARAMETERS
MANIPULATORS	[NASA-TP-3113] p.6 N91-27140 A method for determining spiral-bevel gear looth	West Antarctic Ice Sheet Initiative Volume 1 Science
A generalized method for multiple robotic manipulator	geometry for finite element analysis	and implementation Plan
programming applied to vertical-up welding	[NASA-TP-3096] p 28 N92-10195	[NASA-CP-3115-VOL-1] p.32 N91-20541
[NASA-TP-3163] p 24 N92-11218	Seals Flow Code Development	NASA/MSFC FY91 Global Scale Atmospheric
MANNED MARS MISSIONS Metallized propellants for the human exploration of	[NASA-CP-10070] p 15 N92-15082	Processes Research Program Review
Mars	Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186	[NASA-CP-3126] p 35 N91-32660
[NASA-TP-3062] p 19 N91-11800	An efficient HZETRN (a galactic cosmic ray transport	METEOROLOGICAL RADAR Airborne Wind Shear Detection and Warning Systems
International exploration of Mars. A special	code)	Third Combined Manufacturers' and Technologists'
bibliography	[NASA-TP-3147] p.51 N92-22218	Conference, part 2
(NASA-SP-7091) p 49 N91-24965 Ongoing Progress in Spacecraft Controls	Improved accuracy for finite element structural analysis	[NASA-CP-10060-PT-2] p 9 N91-24140
[NASA-CP-10099] p 19 N92-28730	via a new integrated force method [NASA-TP-3204] p 30 N92-22227	METEOROLOGY
MANNED SPACE FLIGHT	[NASA-TP-3204] p 30 N92-22227 The High Resolution Accelerometer Package (H:RAP)	NASA/MSFC FY90 Global Scale Atmospheric
MIRACAL. A mission radiation calculation program for	flight experiment summary for the first 10 flights	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500
analysis of lunar and interplanetary missions	[NASA-RP-1267] p.3 N92-22505	The 22nd Annual Precise Time and Time Interval (PTTI)
(NASA-TP-3211) p 51 N92-25100 MANNED SPACECRAFT	Software Surface Modeling and Grid Generation	Applications and Planning Meeting
Ongoing Progress in Spacecraft Controls	Steering Committee [NASA-CP-3143] p 42 N92-24397	[NASA-CP-3116] p 44 N91 25755
(NASA-CP-10099) p 19 N92-28730	MIRACAL: A mission radiation calculation program for	NASA/MSFC FY91 Global Scale Almospheric
MANUAL CONTROL	analysis of lunar and interplanetary missions	Processes Research Program Review
Manual Control Aspects of Orbital Flight	[NASA-TP-3211] p 51 N92-25100	[NASA-CP-3126] p 35 N91-32660 MICROBIOLOGY
[NASA-CP-10056] p 13 N91-20147 MANUFACTURING	Computational Fluid Dynamics numerical methods	Microbiology on Space Station Freedom
Technology 2001: The Second National Technology	and algorithm development [NASA-CP-10078] p 12 N92-25808	[NASA-CP-3108] p.37 N91-18573
Transfer Conference and Exposition, volume 1	Calculation of unsteady transonic flows with mild	MICROBURSTS (METEOROLOGY)
[NASA-CP-3136-VOL-1] p 52 N92-22423	separation by viscous-inviscid interaction	Airborne Wind Shear Detection and Warning Systems
Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 2	[NASA-TP-3197] p 7 N92-28477	Second Combined Manufacturers, and Technologists:
		Second Combined Manufacturers' and Technologists'
	Trajectory fitting in function space with application to	Conference, part 2
(NASA-CP-3136-VOL-2) p 52 N92-22676	Trajectory fitting in function space with application to analytic modeling of surfaces	Conference, part 2 [NASA-CP-10050-PT-2] p.9 N91-11695
	Trajectory fitting in function space with application to	Conference, part 2
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083 p.34 N91-10448 P.34 N91-1048 P.34 N91-1048	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p.8 N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1	Conference, part 2 [NASA:CP-10050-PT-2] p.9. N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 NASA-CP-3083 p.34 N91-10448 MARKOV PROCESSES	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p.8 N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513	Conference, part 2 [NASA-CP-10050-PT-2] p. 9. N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p. 9. N91-24140
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p.8 N92-30747 Eighth DOD/NASA/F.VA Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Inertial oscillation of a vertical rotating draft with	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p.8 N92-30747 Eighth DOD/NASA/F \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Conference, part 2 [NASA-CP-10050-PT-2] p 9 Ng1-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 Ng1-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists'
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083] p.34 N91-10448 MARKOV PROCESSES Model reduction by Immuning for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-25741	Trajectory fitting in function space with application to analytic modeling of surfaces {NASA-TP-3232} p.8 N92-30747 Eighth DOD/NASA/F VA Conference on Fibrous Composites in Structural Design, part 1 {NASA-CP-3087-PT-1} p.22 N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm {NASA-TP-3230} p.36 N92-33482	Conference, part 2 [NASA:CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA:CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p.8 N92-30747 Eighth DOD/NASA/F \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p.31 N92-26537	Trajectory fitting in function space with application to analytic modeling of surfaces {NASA-TP-3232} p 8 N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1 {NASA-CP-3087-PT-1} p 22 N92-32513 Inertial oscillation of a vertical rotating draft with application to a superceil storm {NASA-TP-3230} p 36 N92-33482 Advanced techniques in reliability model representation and solution {NASA-TP-3242} p 45 N92-33483	Conference, part 2 [NASA:CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA:CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by Immining for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p.31 N92-26537 MARS (PLANET)	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747 Eighth DOD/NASA/F.\A. Conference on Fibrous Composites in Structural Design, part 1. [NASA-CP-3087-PT-1] p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p. 36. N92-33482 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p. 43. N92-33483 Inertial oscillation of a vertical rotating draft with	Conference, part 2 {NASA-CP-10050-PT-2 p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 {NASA-CP-10060-PT-2 p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 {NASA-CP-10060-PT-1 p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by Immining for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exobiology on Mars	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747 Eighth DOD/NASA/F \ A. Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p. 36. N92-33482 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p.31 N92-26537 MARS (PLANET) Exobiology on Mars {NASA-CP-10055} p.41 N91-15691	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p. 8. N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1. NASA-CP-3087-PT-1 p. p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm (NASA-TP-3230) p. 36. N92-33482 Advanced techniques in reliability model representation and solution (NASA-TP-3242) p. 43. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930 MICROORGANISMS
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by Immining for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exobiology on Mars	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p. 8 N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p. 36 N92-33482 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p. 45 N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p. 36 N92-34246 MATRICES (MATHEMATICS)	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p.31 N92-26537 MARS (PLANET) Exobiology on Mars [NASA-CP-10055] p.41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8 N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Inertial oscillation of a vertical rotating draft with application to a superceil storm [NASA-TP-3230] p. 36 N92-33482 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p. 45 N92-33483 Inertial oscillation of a vertical rotating draft with application to a superceil storm. Video supplement to NASA-TP-3230-VIDEO-SUPPL] p. 36 N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady	Conference, part 2 [NASA-CP-10050-PT-2] p.9. Ng1-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-1060-PT-2] p.9. Ng1-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-1060-PT-1] p.9. Ng1-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p.48. Ng1-15930 MICROORGANISMS Microbiology on Space Station Freedom
NASA-CP-3136-VOL-2 p 52 N92-22676	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747 Eighth DOD/NASA/F \A. Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a superceil storm [NASA-TP-3230] p. 36. N92-33482 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a superceil storm. Video supplement to NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method	Conference, part 2 {NASA-CP-10050-PT-2 p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 {NASA-CP-10060-PT-2} p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 {NASA-CP-10060-PT-1} p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} p 48 N91-15930 MICROORGANISMS Microbiology on Space Station Freedom {NASA-CP-3108} p 37 N91-18573
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by Immining for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography [NASA-SP-7091] p 49 N91-249*5 MARS ENVIRONMENT	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8 N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1 [NASA-CP-3087-PT-1] p. 22 N92-32513 Inertial oscillation of a vertical rotating draft with application to a superceil storm [NASA-TP-3230] p. 36 N92-33482 Advanced techniques in reliability model representation and solution [NASA-TP-3242] p. 45 N92-33483 Inertial oscillation of a vertical rotating draft with application to a superceil storm. Video supplement to NASA-TP-3230-VIDEO-SUPPL] p. 36 N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady	Conference, part 2 {NASA-CP-10050-PT-2 p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 {NASA-CP-10060-PT-2} p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 {NASA-CP-10060-PT-1} p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} p 48 N91-15930 MICROORGANISMS Microbiology on Space Station Freedom {NASA-CP-3108} p 37 N91-18573 MICROSTFUCTURE An investigation of microstructural characteristics of contact-liens polymers
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by Immining for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exobiology on Mars {NASA-CP-10055} p 41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-24915 MARS ENVIRONMENT International exploration of Mars A special	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747. Eighth DOD/NASA/F \A. Conference on Fibrous Composites in Structural Design, part. 1. [NASA-CP-3087-PT-1] p. 22. N92-32513. Inertial oscillation of a vertical rotating draft with application to a superceil storm. [NASA-TP-3230] p. 36. N92-33482. Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 45. N92-33483. Inertial oscillation of a vertical rotating draft with application to a superceil storm. Video supplement to NASA Technical Paper 3230. [NASA-TP-3230-VIDEO-SUPPL.] p. 36. N92-34246. [NASA-TP-3230-VIDEO-SUPPL.] p. 36. N92-34246. [NASA-TP-3025] p. 4. N91-18031. On the formulation of a minimal uncertainty model for robust control with structured uncertainty.]	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18523 MICROSTFUCTURE An investigation of microstructural characteristics of contact-tiens polymers [NASA-TP-3034] p 21 N91-13492
{NASA-CP-3136-VOL-2 p.52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p.34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p.43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p.31 N92-26537 MARS (PLANET) Exobiology on Mars [NASA-CP-10055] p.41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography [NASA-SP-7091] p.49 N91-24915 MARS ENVIRONMENT International exploration of Mars A special bibliography International exploration of Mars A special bibliography International exploration of Mars A special bibliography	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747 Eighth DOD/NASA/F.VA Conference on Fibrous Composites in Structural Design, part 1. [NASA-CP-3087-PT-1] p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm. [NASA-TP-3230] p. 36. N92-33482 Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA-TP-3230-VIDEO-SUPPL.] p. 36. N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady serodynamic forces using the minimum-state method (NASA-TP-3025). On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094] p. 13. N92-10027	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91 15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 MICROSTPUCTURE An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91 13492 Investigation of microstructural changes in
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by Immining for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exobiology on Mars {NASA-CP-10055} p 41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-24915 MARS ENVIRONMENT International exploration of Mars A special	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p. 8. N92-30747. Eighth DOD/NASA/F \ A. Conference on Fibrous Composites in Structural Design, part 1. [NASA-CP-3087-PT-1] p. 22. N92-32513. Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p. 36. N92-33482. Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 43. N92-33483. Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA Technical Paper 3230. [NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246. MATRICES (MATHEMATICS). Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025) p. 4. N91-18031. On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094].	Conference, part 2 [NASA-CP-10050-PT-2] p.9. Ng1-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p.9. Ng1-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p.9. Ng1-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p.48. Ng1-15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p.37. Ng1-18523 MICROSTFUCTURE An investigation of microstructural characteristics of contact-tiens polymers [NASA-TP-3034] p.21. Ng1-13492 Investigation of microstructural characteristics in polyetherether-ketone films at cryogenic temperatures by
NASA-CP-3136-VOL-2 p 52 N92-22676	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747. Eighth DOD/NASA/F \A. Conference on Fibrous Composites in Structural Design, part. 1. [NASA-CP-3087-PT-1] p. 22. N92-32513. Inertial oscillation of a vertical rotating draft with application to a superceil storm. [NASA-TP-3230] p. 36. N92-33482. Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 45. N92-33483. Inertial oscillation of a vertical rotating draft with application to a superceil storm. Video supplement to NASA Technical Paper 3230. [NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246. MATRICES (MATHEMATICS). Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p. 4. N91-18031. On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094] p. 13. N92-10027. MAXIMUM LIKELIHODD ESTIMATES. User's guide. Nimbus-7. Earth radiation budget.	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91 15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 MICROSTPUCTURE An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91 13492 Investigation of microstructural changes in
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exobiology on Mars {NASA-CP-10055} p 41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-249°5 MARS ENVIRONMENT International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-249°5 MARS SURFACE Radiation protection for human missions to the Moon and Mars	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p. 8. N92-30747. Eighth DOD/NASA/F \ A. Conference on Fibrous Composites in Structural Design, part 1. [NASA-CP-3087-PT-1] p. 22. N92-32513. Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p. 36. N92-33482. Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 43. N92-33483. Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA Technical Paper 3230. [NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246. MATRICES (MATHEMATICS). Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025) p. 4. N91-18031. On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094].	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18523 MICROSTFUCTURE An investigation of microstructural characteristics of confact-tiens polymers [NASA-TP-3034] p 21 N91-13492 Investigation of microstructural characteristics in polyetherether-ketone films at cryogenic temperatures by positron lifetime spectroscopy
NASA-CP-3136-VOL-2 p 52 N92-22676	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747. Eighth DOD/NASA/FA Conference on Fibrous Composites in Structural Design, part. 1. [NASA-CP-3087-PT-1] p. 22. N92-32513. Inertial oscillation of a vertical rotating draft with application to a superceil storm. [NASA-TP-3230] p. 36. N92-33482. Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 45. N92-33483. Inertial oscillation of a vertical rotating draft with application to a superceil storm. Video supplement to NASA Technical Paper 3230. [NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246. [NASA-TP-3230-VIDEO-SUPPL] p. 36. N92-34246. [NASA-TP-3025] p. 4. N91-18031. On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094] p. 13. N92-10027. [NAS	Conference, part 2 [NASA-CP-10050-PT-2] p.9. N91-11695 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p.9. N91-24140 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p.9. N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p.48. N91-15930 MICROGRANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p.37. N91-18573 MICROSTFUCTURE An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p.21. N91-13492 Investigation of microstructural characteristics by positron lifetime spectroscopy [NASA-TP-3064] p.21. N91-18216 Low-energy positron flux generator for microstructural characterization of thin films
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exotiology on Mars {NASA-CP-10055} p 41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-249°5 MARS ENVIRONMENT International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-249°5 MARS SURFACE Radiation protection for human missions to the Moon and Mars {NASA-TP-3079} p 50 N91-17999 Sand and Dust on Mars	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747 Eighth DOD/NASA/F.VA Conference on Fibrous Composites in Structural Design, part. 1 [NASA-CP-3087-PT-1] p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm. [NASA-TP-3230] p. 36. N92-33482 Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA-TP-3242} p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA-TP-3230-VIDEO-SUPPL.] p. 36. N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p. 4. N91-18031 On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094] MAXIMUM LIKELIHOOD ESTIMATES User's guide. Nimbus-7. Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p. 34. N91-13043	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 MICROSTFUCTURE An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-18492 Investigation of microstructural characteristics of polymers [NASA-TP-3034] p 21 N91-18216 Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538
NASA-CP-3136-VOL-2 p 52 N92-22676	Trajectory fitting in function space with application to analytic modeling of surfaces (NASA-TP-3232) p. 8. N92-30747 Eighth DOD/NASA/F \ Conference on Fibrous Composites in Structural Design, part 1 (NASA-CP-3087-PT-1) p. 22. N92-32513 inertial oscillation of a vertical rotating draft with application to a supercell storm (NASA-TP-3230) p. 36. N92-33482 Advanced techniques in reliability model representation and solution (NASA-TP-3242) p. 45. N92-33483 inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA Technical Paper 3230 (NASA-TP-3230-VIDEO-SUPPL) p. 36. N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method (NASA-TP-3025) p. N91-18031 On the formulation of a minimal uncertainty model for robust control with structured uncertainty [NASA-TP-3094] p. 13. N92-10027 MAXIMUM LIKELIHOOD ESTIMATES User's guide Nimbus-7 Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products [NASA-RP-1246] p. 34. N91-13043 MEASURE AND INTEGRATION	Conference, part 2 [NASA-CP-10050-PT-2] p.9. N91-11695 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p.9. N91-24140 Airborne Wind Shear Detection and Warning Systems. Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p.9. N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p.48. N91-15930 MICROGRAVITY APPLICATIONS MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3108] p.48. N91-15930 MICROGRAVITY APPLICATIONS MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3108] p.48. N91-15930 MICROGRAVITY APPLICATIONS MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3108] p.48. N91-15930 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3108] p.48. N91-15930 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-TP-3074] p.21. N91-18216 Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p.27. N91-22538 MICROWAVE RADIOMETERS
{NASA-CP-3136-VOL-2 p 52 N92-22676 MARINE METEOROLOGY FIRE Science Results 1988 {NASA-CP-3083} p 34 N91-10448 MARKOV PROCESSES Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 MARS (PLANET) Exotiology on Mars {NASA-CP-10055} p 41 N91-15691 MARS ATMOSPHERE International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-249°5 MARS ENVIRONMENT International exploration of Mars A special bibliography {NASA-SP-7091} p 49 N91-249°5 MARS SURFACE Radiation protection for human missions to the Moon and Mars {NASA-TP-3079} p 50 N91-17999 Sand and Dust on Mars	Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p. 8. N92-30747 Eighth DOD/NASA/F.VA Conference on Fibrous Composites in Structural Design, part. 1 [NASA-CP-3087-PT-1] p. 22. N92-32513 Inertial oscillation of a vertical rotating draft with application to a supercell storm. [NASA-TP-3230] p. 36. N92-33482 Advanced techniques in reliability model representation and solution. [NASA-TP-3242] p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA-TP-3242} p. 45. N92-33483 Inertial oscillation of a vertical rotating draft with application to a supercell storm. Video supplement to NASA-TP-3230-VIDEO-SUPPL.] p. 36. N92-34246 MATRICES (MATHEMATICS) Physically weighted approximations of unsteady aerodynamic forces using the minimum-state method [NASA-TP-3025] p. 4. N91-18031 On the formulation of a minimal uncertainty model for robust control with structured uncertainty. [NASA-TP-3094] MAXIMUM LIKELIHOOD ESTIMATES User's guide. Nimbus-7. Earth radiation budget narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum likelihood cloud estimation products. [NASA-RP-1246] p. 34. N91-13043	Conference, part 2 [NASA-CP-10050-PT-2] p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 2 [NASA-CP-10060-PT-2] p 9 N91-24140 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Conference, part 1 [NASA-CP-10060-PT-1] p 9 N91-24166 MICROGRAVITY APPLICATIONS Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930 MICROORGANISMS Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 MICROSTFUCTURE An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-18492 Investigation of microstructural characteristics of polymers [NASA-TP-3034] p 21 N91-18216 Low-energy positron flux generator for microstructural characterization of thin films [NASA-TP-3074] p 27 N91-22538

MIMO (CONTROL SYSTEMS)	Eccentric and concentric muscle performance following	NAVIGATION
A methodology for computing uncertainty bounds of	7 days of simulated weightlessness	Joint University Program for Air Transportation
multivariable systems based on soctor stability theory	[NASA-TP-3182] p 39 N92-17645	Research, 1989-1990
concepts (NASA-TP-3166) p 13 N92-21410	A.	[NASA-CP-3095] p.1 N91-19024 Joint Oriversity Program for Air Transportation
MINERALOGY	N	Research, 1990-1991
Sand and Dust on Mars	***************************************	[NASA-CP-3131] p.3 N92-17984
{NASA-CP-10074} p 50 N91-27057	NACELLES Applications of a direct/iterative design method to	NAVIGATION SATELLITES
MISSION PLANNING	complex transpric configurations	Proceedings of the 23rd Annual Precise Time and Time
Metallized propellants for the human exploration of Mars	[NASA-TP-3234] p.8 N92-33484	Interval (PTTI) Applications and Planning Meeting {NASA-CP-3159} p.44 N92-33350
[NASA-TP-3062] p 19 N91-11800	NASA PROGRAMS	NEAR WAKES
Exobiology on Mars	Issues in NASA program and project management {NASA-SP-6101{03}} p 46 N91-13347	A companson of airborne wake vortex detection
[NASA-CP-10055] p 41 N91-15691	Engines and innovation Lewis Laboratory and American	measurements with values predicted from potential
Vision-21 Space Travel for the Next Millennium	propulsion technology	theory
[NASA-CP-10059] p 13 N91-22139	[NASA-SP-4306] p 51 N91-15975	[NASA-TP-3125] p 10 N92-10994
First among equals: The selection of NASA space	NASA patent abstracts bibliography. A continuing bibliography. Section 1. Abstracts (supplement 38).	NETWORK CONTROL Space Network Control Conterence on Resource
science experiments [NASA-SP-4215] p 52 N91-28060	[NASA-SP-7039(38)-SECT-1] p 47 N91-17833	Allocation Concepts and Approaches
Resource envelope concepts for mission planning	NASA patent abstracts bibliography. A continuing	(NASA-CP-3124) p.16 N92-11039
[NASA-TP-3139] p 15 N91-29209	bibliography Section 2 Indexes (supplement 38)	Space Communications Technology Conference
Flight Mechanics/Estimation Theory Symposium, 1991	[NASA-SP-7039(38)-SECT-2] p 47 N91-17834	Onboard Processing and Switching
[NASA-CP-3123] p 14 N92-14070	Proceedings of the X-15 First Flight 30th Anniversary Celebration	[NASA-CP-3132] p 25 N92-14202 NEURAL NETS
Beyond the Baseline 1991: Proceedings of the Space	[NASA-CP-3105] p 10 N91-20071	Proceedings of the Second Joint Technology Workshop
Station Evolution Symposium, Volume 2: Space Station Freedom, part 1:	Technology 2000, volume 2	on Neural Networks and Fuzzy Logic, volume 2
[NASA-CP-10083-VOL-2-PT-1] p 18 N92-17768	[NASA-CP-3109-VOL-2] p 52 N91-24041	[NASA-CP-10061-VOL-2] p.43 N91-20811
MIXING LAYERS (FLUIDS)	Issues in NASA program and project management [NASA-SP-6101(04)] p 46 N91-28026	Proceedings of the Second Joint Technology Workshop
Direct simulation of high-speed mixing layers	NASA patent abstracts bibliography: A continuing	on Neural Networks and Fuzzy Logic, volume 1 [NASA-CP-10061-VOL-1] p.43 N91-21778
(NASA-TP-3186) p 8 N92-30909 MODAL RESPONSE	bibliography Section 1 Abstracts (supplement 39)	The 1991 Goddard Conference on Space Applications
On-orbit structural dynamic performance of a 15-meter	[NASA-SP-7039(39)-SECT-1] p 48 N91-28042	of Artificial Intelligence
microwave radiometer antenna	NASA patent abstracts bibliography: A continuing bibliography. Section 1: Abstracts (supplement 40)	[NASA-CP-3110] p 43 N91-22769
[NASA-TP-3041] p 16 N91-17114	{NASA-SP-7039(40)-SECT-1} p 48 N92-22508	Fault tolerance of artificial neural networks with
A controls engineering approach for analyzing airplane input-output characteristics	NASA Wallops Flight Facility Air-Sea Interaction	applications in critical systems [NASA-TP-3187] p. 42 N92-22285
[NASA-TP-3072] p 12 N91-20128	Research Facility	[NASA-TP-3187] p. 42 N92-22285 The 1992 Goddard Conference on Space Applications
The effect of acceleration versus displacement methods	[NASA-RP-1277] p 36 N92-25981 NASA patent abstracts bibliography A continuing	of Artificial Intelligence
on steady-state boundary forces	bibliography. Section 2. Indexes (supplement 40)	[NASA-CP-3141] p 43 N92-23356
[NASA-TP-3218] p 30 N92-21457 MODELS	[NASA-SP-7039(40)-SECT-2] p 48 N92-27081	NEUTRAL BUOYANCY SIMULATION
Comparison of a two-dimensional adaptive-wall	Issues in NASA program and project management	A method of evaluating efficiency during space-suited
technique with analytical wall interference correction	(NASA-SP-6101(05)) p 47 N92-27609	work in a neutral buoyancy environment [NASA-TP-3153] p.40 N92-19772
techniques	NASA Workshop on future directions in surface modeling and grid generation	NEUTRONS
[NASA-TP-3132] p 7 N92-20494	[NASA-CP-10092] p 8 N92-29625	Benchmark solutions for the galactic heavy-ion transport
MODULATION Advanced Modulation and Coding Technology	NASA patent abstracts bibliography. A continuing	equations with energy and spatial coupling
Conference	bibliography. Section 2. Indexes (supplement 41)	[NASA-TP-3112] p 44 N92-13756
(NASA-CP-10053) p 16 N92-22001	[NASA-SP-7039(41)-SECT-2] p 48 N92-31455 The development of the NASA sviation safety reporting	NEWTONIAN FLUIDS
MOLECULAR CLOUDS	System	Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing/anti-icing fluids
Interstellar Dust: Contributed Papers (NASA-CP-3036) p 48 N91-14897	[NASA-RP-1114] p 10 N91-70436	[NASA-TP-3238] p 10 N92-30395
MOMENTS	NASA SPACE PROGRAMS	NICKEL CADMIUM BATTERIES
Measurements of forces, moments, and pressures on	Exobiology on Mars [NASA-CP-10055] p 41 N91-15691	The 1991 NASA Aerospace Battery Workshop
a generic store separating from a box cavity at supersonic	Technology for the Future: In-Space Technology	[NASA-CP-3140] p 33 N92-22740
speeds {NASA-TP-3110} p.6 N92-10005	Experiments Program, part 1	The 1990 NASA Aerospace Battery Workshop [NASA-CP-3119] p 20 N92-27130
MOMENTS OF INERTIA	[NASA-CP-10073-PT-1] p 14 N91-27177	NICKEL HYDROGEN BATTERIES
Influence of mass moment of inertia on normal modes	Technology for the Future: In-Space Technology Experiments Program, part 2	The 1991 NASA Aerospace Battery Workshop
o preloaded solar array mast	[NASA-CP-10073-PT-2] p 14 N91-27178	[NASA-CP-3140] p 33 N92-22740
[NASA-TP-3273] p.31 N92-33476 MOMENTUM TRANSFER	First among equals: The selection of NASA space	The 1990 NASA Aerospace Battery Workshop
Inclusive inelastic scattering of heavy ions and nuclear	science experiments	[NASA-CP-3119] p 20 N92-27130
correlations	[NASA-SP-4215] p 52 N91-28060	NIMBUS 7 SATELLITE User's guide. Nimbus-7 Earth radiation budget
[NASA-TP-3026] p 46 N91-13985	Ongoing Progress in Spacecraft Controls [NASA-CP-10099] p 19 N92-28730	narrow-field-of-view products. Scene radiance tape
MULTIGRID METHODS Workshop on Grid Generation and Related Areas	NASTRAN	products, sorting into angular bins products, and maximum
[NASA-CP-10089] p 12 N92-25712	Nineteenth NASTRAN (R) Users' Colloquium	likelihood cloud estimation products
MULTISENSOR APPLICATIONS	[NASA-CP-3111] p 29 N91-20506	[NASA-RP-1246] p 34 N91-13043 Nimbus-7 TOMS Antarctic ozone atlas August -
Multisource Data Integration in Remote Sensing	Twentieth NASTRAN (R) Users' Colloquium	December 1990
[NASA-CP-3099] p 32 N91-15615 MULTIVARIABLE CONTROL	[NASA-CP-3145] p 30 N92-24324	[NASA-RP-1264] p.35 N91-26651
A methodology for computing uncertainty bounds of	NATIONAL AEROSPACE PLANE PROGRAM Numerical studies of convective cooling for a locally	NIOBIUM ALLOYS
multivariable systems based on sector stability theory	heated skin	Surface effects on hydrogen permeation through
concepts	[NASA-TP-3100] p 26 N91-22509	Ti-14AI-21Nb alloy {NASA-TP-3109} p 23 N91-20266
[NASA-TP-3166] p 13 N92-21410 MUSCLES	NATIONAL AIRSPACE SYSTEM	(NASA-TP-3109) p 23 N91-20266 NITRATES
Eccentric and concentric muscle performance following	Joint University Program for Air Transportation Research, 1990-1991	Saturation point model for the formation of metal nitrate
7 days of simulated weightlessness	[NASA-CP-3131] p.3 N92-17984	in nitrogen tetroxide oxidizer
[NASA-TP-3182] p.39 N92-17645	NAVIER-STOKES EQUATION	[NASA-TP-3107] p 26 N91-24542
MUSCULAR FUNCTION	Navier-Stokes and Euler solutions for lee-side flows over	NITROGEN
Eccentric and concentric muscle performance following 2 days of simulated weightlessness	supersonic delta wings. A correlation with experiment	Calculations and curve fits of thermodynamic and transport properties for equilibrium air to 30000 K
(NASA-TP-3182) p 39 N92-17645	[NASA-TP-3035] p.4 N91-13401	[NASA-RP-1260] p 26 N92-11285
MUSCULAR STRENGTH	Relative efficiency and accuracy of two Navier-Stokes codes for simulating attached transonic flow over wings	NITROGEN DIOXIDE
The validation of a human force model to predict dynamic	(NASA-TP-3061) p.26 N91-17310	SAGE 1 data user's guide
farces resulting from multi-joint mations [NASA-TP-3206] p 40 N92-26538	An explicit upwind algorithm for solving the parabolized	[NASA-RP-1275] p 34 N92 33097 NITROGEN OXIDES
MUSCULOSKELETAL SYSTEM	Navier-Stokes equations	The atmospheric effects of stratospheric aircraft. A
Workshop on Exercise Prescription for Long-Duration	[NASA-TP-3050] p.4 N91-18032	current consensus
Space Flight	Stagnation-point heat-transfer rate predictions at	[NASA-RP-1251] p 33 N91 16467
(NASA-CP-3051) p.36 N91-10574 Techniques for determination of impact forces during	aeroassist flight conditions (NASA-TP-3208) p. 27 N92-31281	NITROGEN TETROXIDE Saturation point model for the formation of metal nitrate
walking and running in a zero-G environment	A nozzle internal performance prediction method	in nitrogen tetroxide oxidizer
NASA-TP-3159) p.38 N92 17022	[NASA TP:3221] p.8 N92-33625	[NASA-TP-3107] p 26 N91-24542

NOAA 10 SATELLITE	A nozzle internal performance prediction method	OPTICAL MEASUREMENT
Mission description and in-flight operations of ERBE	[NASA-TP-3221] p.8 N92-33625	Optical measurements on solid specimens of solid rocket
instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986	Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20	motor exhaust and solid rocket motor slag [NASA-TP-3177] p.20 N92-20949
[NASA-RP-1256] p 32 N92-10208	[NASA-TP-3240] p 9 N92-34193	Three-dimensional laser window formation
Mission description and in-flight operations of ERBE	NOZZLE GEOMETRY	[NASA-RP-1280] p 14 N92-30307
instruments on ERBS, NOAA 9, and NOAA 10 spacecraft	Static thrust-vectoring performance of nonaxisymmetric	OPTICAL RADAR Airborne Wind Shear Detection and Warning Systems
[NASA-RP-1279] p 32 N92-32127	convergent-divergent nozzles with post-exit yaw varies [NASA-TP-3085] p.5 N91-21059	Third Combined Manufacturers' and Technologists'
NOAA 9 SATELLITE	Aeronropulsive characteristics of canted twin	Conference, part 2
Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November	pitch-vectoring nozzles at Mach 0.20 to 1.20	[NASA-CP-10060-PT-2] p.9 N91-24140 Sixteenth International Laser Radar Conference part
1984 - January 1986	[NASA-TP-3060] p 5 N91-22069	1
[NASA-RP-1256] p 32 N92-10208	NOZZLE THRUST COEFFICIENTS A nozzle internal performance prediction method	[NASA-CP-3158-PT-1] p 28 N92-29228
Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10	[NASA-TP-3221] p 8 N92-33625	Sixteenth International Laser Radar Conference, part 2
spacecraft	NUCLEAR ENGINE FOR ROCKET VEHICLES	[NASA-CP-3158-PT-2] p.28 N92-31013
[NASA-RP-1279] p 32 N92-32127	Nuclear Thermal Propulsion: A Joint NASA/D0E/D0D Workshop	OPTICAL TRACKING
NOISE GENERATORS	[NASA-CP-10079] p 20 N92-11088	Proceedings of the 23rd Annual Precise Time and Time
Aeroacoustics of flight vehicles: Theory and practice. Volume 1: Noise sources	NUCLEAR INTERACTIONS	Interval (PTTI) Applications and Planning Meeting [NASA-CP-3159] p.44 N92-33350
[NASA-RP-1258-VOL-1] p 45 N92-10598	Benchmark solutions for the galactic heavy-ion transport	OPTIMAL CONTROL
NOISE INTENSITY	equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756	Fourth NASA Workshop on Computational Control of
Fourth International Symposium on Long-Range Sound Propagation	NUCLEAR PROPULSION	Flexible Aerospace Systems, part 2
[NASA-CP-3101] p 44 N91-16682	Vision-21: Space Travel for the Next Millennium	[NASA-CP-10065-PT-2] p.17 N91-22331 OPTIMIZATION
NOISE MEASUREMENT	[NASA-CP-10059] p 13 N91-22139	Multidisciplinary optimization of controlled space
Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679	Nuclear Thermal Propulsion, A Joint NASA/DOE/DOD	structures with global sensitivity equations
Fourth Aircraft Intenor Noise Workshop	Workshop [NASA-CP-10079] p 20 N92-11088	[NASA-TP-3130] p 18 N92-11087
[NASA-CP-10103] p 45 N92-32948	NUCLEAR REACTORS	Optimization of composite sandwich cover panels
NOISE POLLUTION	Vision-21: Space Travel for the Next Millennium	subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679
The atmospheric effects of stratospheric aircraft: A first program report	(NASA-CP-10059) p 13 N91-22139	ORBIT CALCULATION
[NASA-RP-1272] p 33 N92-19121	NUCLEONS Radiation protection for human missions to the Moon	Flight Mechanics/Estimation Theory Symposium, 1991
NOISE PREDICTION	and Mars	[NASA-CP-3123] p 14 N92-14070 ORBIT DECAY
Aeroacoustics of flight vehicles: Theory and practice. Volume 2: Noise control	[NASA-TP-3079] p 50 N91-17999	Flight Mechanics/Estimation Theory Symposium, 1991
(NASA-RP-1258-VOL-2) p 45 N92-14779	HZETRN: A heavy ion/nucleon transport code for space	[NASA-CP-3123] p 14 N92-14070
Fourth Aircraft Interior Noise Workshop	radiations (NASA-TP-3146) p.51 N92-15959	ORBIT TRANSFER VEHICLES
[NASA-CP-10103] p 45 N92-32948 NOISE PROPAGATION	NUMERICAL ANALYSIS	Hypervelocity atmospheric flight Real gas flow fields [NASA-RP-1249] p.26 N91-20418
Aeroacoustics of flight vehicles: Theory and practice.	Shock wave interaction with an abrupt area change	Launch vehicle integration options for a large Earth
Volume 2: Noise control	[NASA-TP-3113] p 6 N91-27140	sciences geostationary platform concept
[NASA-RP-1258-VOL-2] p 45 N92-14779 NOISE REDUCTION	Computational Fluid Dynamics numerical methods and algorithm development	[NASA-TP-3083] p 15 N91-27180
Aeroacoustics of flight vehicles: Theory and practice.	[NASA-CP-10078] p 12 N92-25808	Simulation of real-gas effects on pressure distributions for aeroassist flight experiment vehicle and comparison
Volume 1: Noise sources	NUMERICAL CONTROL	with prediction
[NASA-RP-1258-VOL-1] p 45 N92-10598	A generalized method for multiple robotic manipulator	[NASA-TP-3157] p.27 N92-20677
Aeroacoustics of flight vehicles: Theory and practice. Volume 2: Noise control	programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218	ORBITAL ASSEMBLY
(NASA-RP-1258-VOL-2) p 45 N92-14779	NUMERICAL STABILITY	Launch vehicle integration options for a large Earth sciences geostationary platform collection
Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p.45 N92-32948	Identification of linear systems by an asymptotically	[NASA-TP-3083] p 15 N91-27180
NONADIABATIC CONDITIONS	stable observer (NASA-TP-3164) p 31 N92-26537	Packaging, development, and on-orbit assembly options
Longitudinal aerodynamic characteristics of a subsonic,	NUMERICAL WEATHER FORECASTING	for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182
energy-efficient transport configuration in the National	NASA/MSFC FY90 Global Scale Atmospheric	
		Automation and Robotics for Space-Based Systems
Transonic Facility [NASA-TP-2922] p 6 N91-28143	Processes Research Program Review	Automation and Robotics for Space-Based Systems, 1991
(NASA-TP-2922) p 6 N91-28143 NONDESTRUCTIVE TESTS	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500	1991 [NASA-CP-10098] p 43 N92-27763
NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace	Processes Research Program Review	1991 {NASA-CP-10098} p 43 N92-27763 Development of a truss joint for robotic assembly of
(NASA-TP-2922) p 6 N91-28143 NONDESTRUCTIVE TESTS	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews	1991 [NASA-CP-10098] p 43 N92-27763
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NOE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961	1991 {NASA-CP-10098} p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O O RING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 CO ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NOE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O O RING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3180] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 CO ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 CO ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster C-ning materials [NASA-TP-3226] p 23 N92-27194	1991 {NASA-CP-10098} p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O O RING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of lemperature and gap opening rate on the resiliency of candidate solid rocket booster O-nng materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 CO ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster C-ning materials [NASA-TP-3226] p 23 N92-27194	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of lemperature and gap opening rate on the resiliency of candidate solid rocket booster Oring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to NASA Technical Paper 3230
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of lemperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING	1991
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3154] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster Oring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference:	1991 [NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to NASA Technical Paper 3230
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 NOZZLE DESIGN A nozzle internal performance prediction method	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of lemperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING	[NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3218] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to NASA-TP-3230-VIDEO-SUPPL) p 36 N92-34246 Outgassing Outgassing data for selecting spacecraft materials revision 2
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 NOZZLE DESIGN A N02-19-33625	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster Oring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH	[NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to NASA-TP-3230 [NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246 OUTGASSING Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 NOZILE DESIGN A noz7le internal performance prediction method [NASA-TP-3221] Parametric investigation of single-expansion-ramp	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 CO ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster C-ning materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH Fourth Annual Workshop on Space Operations	[NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 Orbital Lifetime Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 Orbital Maneuvers Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to NASA-TP-3230-VIDEO-SUPPL) p 36 N92-34246 OUTGASSING Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 OXIDATION
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and serodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 NOZZLE DESIGN A nozzle internal performance prediction method [NASA-TP-3221] Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster Oring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH	[NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3218] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm video supplement to NASA-TP-3230-) [NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246 OUTGASSING Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 OXIDATION Oxidation characteristics of Tr-25Al-10Nb-3V-1Mo intermetallic alloy
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3178] p 7 N92-19175 NOZZLE DESIGN A noz7le internal performance prediction method [NASA-TP-3221] p 8 N92-33625 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 NOZZLE EFFICIENCY	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster Oning materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 OPERATORS (PERSONNEL)	[1991] [NASA-CP-10098] [NASA-CP-10098] [NaSA-TP-3214] [NASA-TP-30198] [NASA-TP-3058] [NASA-TP-3230] [NASA-TP-3230] [NASA-TP-3230] [NASA-TP-3230] [NASA-TP-3230-VIDEO-SUPPL] [NASA-TP-3244] [NASA-TP-32444] [NASA-TP-32444]
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3180] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 NOZILE DESIGN A nozzle internal performance prediction method [NASA-TP-3221] p 8 N92-33625 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 NOZILE EFFICIENCY A nozzle internal performance prediction method	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 ON RING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH Fourth Annual Workshop on Space Operations Applications and Research (SOARI 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 OPERATORS (PERSONNEL) Human Machine Interfaces for Teleoperators and Virtual	[NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm video supplement to NASA-TP-3230-VIDEO-SUPPL) p 36 N92-34246 OUTGASSING Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 OXIDATION Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 Fourth Annual Workshop on Space Operations
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3160] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3178] p 7 N92-19175 NOZZLE DESIGN A noz7le internal performance prediction method [NASA-TP-3221] p 8 N92-33625 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 NOZZLE EFFICIENCY	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster Oning materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 OPERATORS (PERSONNEL)	[1991] [NASA-CP-10098] [NASA-CP-10098] [NaSA-TP-3214] [NASA-TP-30198] [NASA-TP-3058] [NASA-TP-3230] [NASA-TP-3230] [NASA-TP-3230] [NASA-TP-3230] [NASA-TP-3230-VIDEO-SUPPL] [NASA-TP-3244] [NASA-TP-32444] [NASA-TP-32444]
[NASA-TP-2922] p 6 N91-28143 NONDESTRUCTIVE TESTS Second Conference on NDE for Aerospace Requirements [NASA-CP-3091] p 16 N91-18189 The 1991 International Conference on Aging Aircraft and Structural Airworthiness [NASA-CP-3180] p 31 N92-30106 NONEQUILIBRIUM THERMODYNAMICS Aeroacoustic and aerodynamic applications of the theory of nonequilibrium thermodynamics [NASA-TP-3118] p 26 N91-25352 NONLINEAR SYSTEMS Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] p 12 N91-30154 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] p 24 N92-13343 NONLINEARITY A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 NOZILE DESIGN A nozzle internal performance prediction method [NASA-TP-3221] p 8 N92-33625 Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193 NOZILE EFFICIENCY A nozzle internal performance prediction method [NASA-TP-3221] p 8 N92-33625	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 ON RING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference: Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 OPERATORS (PERSONNEL) Human Machine Interfaces for Teleoperators and Virtual Environments Conference [NASA-CP-10071] p 40 N92-11638	[1991] [NASA-CP-10098] [Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] [Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] [Development of a truss joint for robotic assembly of truss structures [NASA-TP-3214] [Development of a utomated assembly of truss structures [NASA-TP-3198] [Development of a utomated assembly of truss structures [NASA-TP-3198] [Development of a vertical robotic plant of the pl
NASA-TP-2922	Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NUTRITIONAL REQUIREMENTS Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 O ORING SEALS Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p 28 N91-14618 Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster Oring materials [NASA-TP-3226] p 23 N92-27194 OCEAN SURFACE A self-zeroing capacitance probe for water wave measurements [NASA-RP-1278] p 36 N92-27930 ONBOARD DATA PROCESSING Space Communications Technology Conference. Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202 OPERATIONS RESEARCH Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] OPERATORS (PERSONNEL) Human Machine Interfaces for Teleoperators and Virtual Environments Conference	[NASA-CP-10098] p 43 N92-27763 Development of a truss joint for robotic assembly of space structures [NASA-TP-3214] p 31 N92-27974 Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 ORBITAL LIFETIME Long-term orbital lifetime predictions [NASA-TP-3058] p 13 N91-10092 ORBITAL MANEUVERS Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 OSCILLATIONS Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to NASA-TP-3230-) [NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246 OUTGASSING Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p 21 N91-14437 OXIDATION Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702

OXIDIZERS	OATENT BOLLOW	
Saturation point model for the formation of metal nitrate	PATENT POLICY NASA patent abstracts bibliography: A continuing	PHASE SHIFT KEYING Advanced Modulation and Coding Technology
in nitrogen tetroxide oxidizer	bibliography. Section 1: Abstracts (supplement 38)	Conference
[NASA-TP-3107] p 26 N91-24542	(NASA-SP-7039(38)-SECT-1) p 47 N91-17833	[NASA-CP-10053] p 16 N92-22001
OXYGEN	NASA patent abstracts bibliography: A continuing	PHOTOVOLTAIC CELLS
Calculations and curve fits of thermodynamic and transport properties for equilibrium air to 30000 K	bibliography. Section 2: Indexes (supplement 38) [NASA-SP-7039(38)-SECT-2] p 47 N91-17834	Space Photovoltaic Research and Technology, 1989 [NASA-CP-3107] p.19 N91-19182
[NASA-RP-1260] p 26 N92-11285	NASA patent abstracts bibliography: A continuing	PHOTOVOLTA'S CONVERSION
OXYGENATION	bibliography Section 1: Abstracts (supplement 39)	Space Photovoltaic Research and Technology, 1989
Electrochemical studies of corrosion inhibitors	[NASA-SP-7039(39)-SECT-1] p 48 N91-28042	[NASA-CP-3107] p 19 N91-19182
[NASA-TP-3066] p 22 N91-17208	NASA patent abstracts bibliography: A continuing bibliography, Section 1: Abstracts (supplement 40)	Space Photovoltaic Research and Technology
OZONE The elementary effects of strategraphene elements A	[NASA-SP-7039(40)-SECT-1] p 48 N92-22508	Conference [NASA-CP-3121] p 19 N91-30203
The atmospheric effects of stratospheric aircraft: A topical review	NASA patent abstracts bibliography: A continuing	PHYSICAL EXERCISE
[NASA-RP-1250] p 33 N91-16466	bibliography. Section 2: Indexes (supplement 41)	Workshop on Exercise Prescription for Long-Duration
The atmospheric effects of stratospheric aircraft: A	[NASA-SP-7039(41)-SECT-2] p 48 N92-31455 PATENTS	Space Flight
current consensus	NASA patent abstracts bibliography: A continuing	[NASA-CP-3051] p.36 N91-10574 Responses of women to orthostatic and exercise
[NASA-RP-1251] p 33 N91-16467	bibliography, Section 2: Indexes (supplement 39)	stresses
Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990	[NASA-SP-7039(39)-SECT-2] p 48 N91-29088	[NASA-TP-3043] p 37 91-19711
[NASA-RP-1264] p 35 N91-26651	NASA patent abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 40)	Fuel utilization during exercise after . ,'s ut bed rest
Sixteenth International Laser Radar Conference, part	{NASA-SP-7039(40)-SECT-2] p 48 N92-27081	[NASA-TP-3175] p 38 N92-16554 A method of evaluating efficiency during space-suited
2	PATTERN RECOGNITION	work in a neutral buoyancy environment
[NASA-CP-3158-PT-2] p 28 N92-31013	Proceedings of the Second Joint Technology Workshop	[NASA-TP-3153] p 40 N92-19772
SAGE 1 data user's guide {NASA-RP-1275} p.34 N92-33097	on Neural Networks and Fuzzy Logic, volume 2 [NASA-CP-10061-VOL-2] p 43 N91-20811	PHYSICAL FITNESS
OZONE DEPLETION	PAYLOAD INTEGRATION	Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] p 38 N92-16554
Nimbus-7 TOMS Antarctic ozone atlas: August -	Launch vehicle integration options for a large Earth	PHYSICS
December 1990	sciences geostationary platform concept	Aeronautical engineering. A continuing bibliography with
(NASA-RP-1264) p 35 N91-26651	[NASA-TP-3083] p 15 N91-27180	indexes (supplement 275)
The atmospheric effects of stratospheric aircraft: A first	Packaging, development, and on-orbit assembly options for large geostationary spacecraft	[NASA-SP-7037(275)] p 3 N92-28679 PHYSIOLOGICAL EFFECTS
program report [NASA-RP-1272] p 33 N92-19121	[NASA-TP-3088] p 17 N91-27182	Radiation risk predictions for Space Station Freedom
(MODITION DE MODITION DE MODIT	PAYLOADS	orbits
P	Metallized propellants for the human exploration of	[NASA-TP-3098] p 51 N91-26107
F	Mars [NASA-TP-3062] p 19 N91-11800	PHYSIOLOGY
PACKET SWITCHING	Lunar missions using chemical propulsion: System	Responses of women to orthostatic and exercise stresses
Destination-directed, packet-switching architecture for	design issues	[NASA-TP-3043] p 37 N91-19711
30/20-GHz FDMA/TDM geostationary communications	[NASA-TP-3065] p 19 N91-15308	PILOT PERFORMANCE
satellite network [NASA-TP-3201] p 16 N92-15762	Payload bay doors and radiator panels familiarization handbook	Flight characteristics of a modified Schweizer SGS1-36
PALEOMAGNETISM	[NASA-TM-107793] p 15 N92-20676	sailplane at low and very high angles of attack [NASA-TP-3022] p 12 N91-10079
Steady induction effects in geomagnetism. Part 1A:	Definition and design of an experiment to test raster	Effect of short-term exposure to stereoscopic
Steady motional induction of geomagnetic chaos	scanning with rotating unbalanced-mass devices on	three-dimensional flight displays on real-world depth
[NASA-TP-3272-PT-1A] p 34 N92-32655	gimbaled payloads [NASA-TP-3249] p 24 N92-29677	perception
PANEL METHOD (FLUID DYNAMICS) Prediction of effects of wing contour modifications on	PEEK	[NASA-TP-3117] p 11 N92-13065 PIPES (TUBES)
low-speed maximum lift and transonic performance for the	Investigation of microstructural changes in	Effect of type of load on stress analysis of thin-wailed
EA-68 aircraft	polyetherether-ketone films at cryogenic temperatures by	ducts
[NASA-TP-3046] p 4 N91-10902	positron lifetime spectroscopy [NASA-TP-3064] p 21 N91-18216	[NASA-TP-3248] p 31 * 92-26669
Panel methods: An introduction [NASA-TP-2995] p.5 N91-19058	PERFORMANCE PREDICTION	PITCHING MOMENTS A nozzle internal performance prediction method
PANELS	Long-term orbital lifetime predictions	[NASA-TP-3221] p 8 N92-33625
Payload bay doors and radiator panels familiarization	(NASA-TP-3058) p 13 N91-10092	PLANE STRAIN
handbook	Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the	Applications of FEM and 8EM in two-dimensional
[NASA-TM-107793] p 15 N92-20676 PARABOLIC DIFFERENTIAL EQUATIONS	EA-6B aircraft	fracture mechanics problems [NASA-TP-3277] p 31 N92-31280
An explicit upwind algorithm for solving the parabolized	[NASA-TP-3046] p.4 N91-10902	PLANETARY GEOLOGY
Navier-Stokes equations	Shortcomings in ground testing, environment	Planetary geosciences, 1989-1990
[NASA-TP-3050] p 4 N91-18032	simulations, and performance predictions for space	[NASA-SP-508] p 50 N92-28345
PARALLEL PROCESSING (COMPUTERS) Advanced techniques in reliability model representation	applications [NASA-TP-3217] p 23 N92-22593	PLANFORMS
and solution	Wind tunnel aerodynamic characteristics of a	Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect
[NASA-TP-3242] p 43 N92-33483	transport-type airfoil in a simulated heavy rain	ratio of 1.14
PARAMETER IDENTIFICATION	environment {NASA-TP-3184} p.8 N92-31532	[NASA-TP-3116] p 11 N92-13054
Flight characteristics of a modified Schweizer SGS1-36 sallplane at low and very high angles of attack	(NASA-TP-3184) p.8 N92-31532 A nozzle internal performance prediction method	PLASMA ARC WELDING A generalized method for multiple robotic manipulator
[NASA-TP-3022] p 12 N91-10079	(NASA-TP-3221) p 8 N92-33625	programming applied to vertical-up welding
PARAMETERIZATION	PERFORMANCE TESTS	[NASA-TP-3163] p 24 N92-11218
FIRE Science Results 1988	Fault tolerance of artificial neural networks with	PLASMA PHYSICS
[NASA-CP-3083] p 34 N91-10448	applications in critical systems	Current Collection from Space Plasmas
Parame'ric study of afterbody/nozzle drag on twin	[NASA-TP-3187] p 42 N92-22285	[NASA-CP-3089] p 46 N91-17713
	[NASA-TP-3187] p. 42 N92-22285 Static performance of a cruciform nozzle with multiaxis	
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316	[NASA-TP-3187] p 42 N92-22285	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas [NASA-CP-3089] p 46 N91-17713 PLASMA PROPULSION
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p.51 N92-15959	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas [NASA-CP-3089] p 46 N91-17713 PLASMA PROPULSION
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 {NASA-TP-2640} p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas [NASA-CP-3089] p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop [NASA-CP-10084] p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0 60 to 1 20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R)
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion illow in the NASA-designed rotating	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) [NASA-TP-3160] p 21 N92-11142
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0 60 to 1 20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion ilow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p.24 N92-13340	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R)
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0 60 to 1.20 (NASA-TP-2640) p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146) p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion ilow in the NASA-designed rotating zero-head-space tissue culture vessel (NASA-TP-31431) p.24 N92-13340 PARTICLE SIZE DISTRIBUTION	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492 Surface effects on hydrogen permeation through	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) [NASA-TP-3160] p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 {NASA-TP-2640} p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion ilow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p.24 N92-13340 PARTICLE SIZE DISTRIBUTION Volcanism-Climate Interactions	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) {NASA-TP-3160} p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0 60 to 1.20 (NASA-TP-2640) p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146) p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion ilow in the NASA-designed rotating zero-head-space tissue culture vessel (NASA-TP-31431) p.24 N92-13340 PARTICLE SIZE DISTRIBUTION	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492 Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) {NASA-TP-3160} p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 POINCARE PROBLEM
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion illow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p.24 N92-13340 PARTICLE SIZE DISTRIBUTION Volcanism-Climate Interactions [NASA-CP-10062] p.34 N91-21641 PATENT APPLICATIONS NASA patent abstracts bibliography A continuing	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492 Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy [NASA-TP-3109] p 23 N91-20266 PERMEATING PERMEATING	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) [NASA-TP-3160] p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 POINCARE PROBLEM Workshop on Squeezed States and Uncertainty Relations
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 {NASA-TP-2640} p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion illow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p.24 N92-13340 PARTICLE SIZE DISTRIBUTION Volcanism-Climate Interactions [NASA-CP-10062] p.34 N91-21641 PATENT APPLICATIONS NASA- patent abstracts bibliography A continuing bibliography Section 2 Indexes (supplement 39)	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492 Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy [NASA-TP-3109] p 23 N91-20266 PERMEATING Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) {NASA-TP-3160} p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 POINCARE PROBLEM Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0 60 to 1 20 [NASA-TP-2640] p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion illow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p.24 N92-13340 PARTICLE SIZE DISTRIBUTION Volcanism-Climate Interactions [NASA-CP-10062] p.34 N91-21641 PATENT APPLICATIONS NASA patent abstracts bibliography A continuing bibliography Section 2 indexes (supplement 39) [NASA-SP-703939] SECT-2] p.48 N91-29088	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492 Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 PERMEATING Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) [NASA-TP-3160] p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 POINCARE PROBLEM Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045 POINTING CONTROL SYSTEMS
Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 {NASA-TP-2640} p.4 N91-14316 PARTICLE INTERACTIONS HZETRN A heavy ion/nucleon transport code for space radiations (NASA-TP-3146] p.51 N92-15959 PARTICLE MOTION Analysis of gravity-induced particle motion and fluid perfusion illow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p.24 N92-13340 PARTICLE SIZE DISTRIBUTION Volcanism-Climate Interactions [NASA-CP-10062] p.34 N91-21641 PATENT APPLICATIONS NASA- patent abstracts bibliography A continuing bibliography Section 2 Indexes (supplement 39)	[NASA-TP-3187] p 42 N92-22285 Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 PERMANENT MAGNETS The 23 to 300 C demagnetization resistance of samanum-coball permanent magnets [NASA-TP-3119] p 25 N92-11252 PERMEABILITY An investigation of microstructural characteristics of contact-lens polymers [NASA-TP-3034] p 21 N91-13492 Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy [NASA-TP-3109] p 23 N91-20266 PERMEATING Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy	[NASA-CP-3089] p 46 N91-17713 PLASMA PROBES Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 PLASMA PROPULSION Magnetoplasmadynamic Thruster Workshop {NASA-CP-10084} p 20 N92-10044 PLATES (STRUCTURAL MEMBERS) An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) {NASA-TP-3160} p 21 N92-11142 PLUMES Comparison of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 POINCARE PROBLEM Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p 46 N92-22045

Aerospace Applications of Magnetic Suspension	PRESSURE DEPENDENCE	PROPELLERS
Technology, part 2	Gibbs free energy of reactions involving SiC, Si3N4, H2,	Structural properties of laminated Douglas fir/epoxy
[NASA-CP-10066-PT-2] p 17 N91-21203 Rigid-body-control subsystem sizing for an Earth science	and H2O as a function of temperature and pressure [NASA-TP-3275] p 23 N92-31278	composite material [NASA-RP-1236] p 20 N91-10127
geostationary platform	PRESSURE DISTRIBUTION	Annoyance caused by advanced turboprop aircraft
[NASA-TP-3087] p 17 N91-22302	Relative efficiency and accuracy of two Navier-Stokes	flyover noise Comparison of different propeller
POLAR METEOROLOGY SAM 2 measurements of the polar stratospheric aerosol.	codes for simulating attached transonic flow over wings [NASA-TP-3061] p 26 N91-17310	configurations [NASA-TP-3104] p.45 N92-11758
Volume 9: October 1982 - April 1983	Effects of yaw angle and Reynolds number on	PROPULSION
[NASA-RP-1244] p 33 N91-18505	rectangular-box cavities at subsonic and transonic	Space Transportation Propulsion Technology
International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects	speeds	Symposium. Volume 1 Executive summary [NASA-CP-3112] p 19 N91-25176
[NASA-CP-3114] p 32 N91-32528	[NASA-TP-3099] p.5 N91-27124 Transonic and supersonic Euler computations of	Large space structures and systems in the space station
POLICIES	vortex-dominated flow fields about a generic fighter	era. A bibliography with indexes (supplement 03)
Proceedings of the Second Annual NASA Science Internet User Working Group Conference	{NASA-TP-3156} p 6 N92-10011	NASA-SP-7085(03) p.18 N92-22317 Workshop on Engineering Turbulence Modeling
[NASA-CP-3117] p 48 N91-27009	Simulation of real-gas effects on pressure distributions	[NASA-CP-10088] p 27 N92-24514
POLYETHYLENES	for aeroassist flight experiment vehicle and comparison with prediction	DEF 69 Months in Space First Post-Retrieval
An examination of the damage tolerance enhancement	[NASA-TP-3157] p 27 N92-20677	Symposium, part 3 (NASA-CP-3134-PT-31 p.52 N92-27083
of carbon/epoxy using an outer lamina of spectra (R) [NASA-TP-3160] p.21 N92-11142	PRESSURE MEASUREMENT	PROPULSION SYSTEM CONFIGURATIONS
POLYGONS	Measurements of forces, moments, and pressures on a generic store separating from a box cavity at supersonic	Lunar missions using chemical propulsion: System
Two-dimensional aerodynamic characteristics of several	speeds	design issues [NASA-TP-3065] p.19 N91-15308
polygon-shaped cross-sectional models applicable to helicopter fuselages	[NASA-TP-3110] p 6 N92-10005	Parametric trade studies on a Shuttle 2 launch system
[NASA-TP-3233] p 8 N92-30394	NACA 0015 wing pressure and trailing vortex measurements	architecture
POLYMER MATRIX COMPOSITES	[NASA-TP-3151] p 6 N92-10981	[NASA-TP-3059] p 14 N91-18180 Aeropropulsion 1991
NASA workshop on impact damage to composites	PRESSURE OSCILLATIONS	[NASA-CP-10063] p 12 N91-20086
[NASA-CP-10075] p 21 N91-29240 POROSITY	Flow-induced resonance of screen-covered cavities	Structural Integrity and Durability of Reusable Space
Experimental investigation of porous-floor effects on	[NASA-TP-3052] p 25 N91-15499 PROBABILITY THEORY	Propulsion Systems [NASA-CP-10030] p 19 N91-24307
cavity flow fields at supersonic speeds	Structural deterministic safety factors selection criteria	Space Transportation Propulsion Technology
[NASA-TP-3032] p 5 N91-19042	and verification	Symposium. Volume 1: Executive summary
POSITRON ANNIHILATION Investigation of microstructural changes in	[NASA-TP-3203] p 30 N92-19355	[NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology
polyetherether-ketone films at cryogenic temperatures by	PROCESS CONTROL (INDUSTRY) The Federal Conference on Intelligent Processing	Symposium. Volume 2: Symposium proceedings
positron lifetime spectroscopy	Equipment	[NASA-CP-3112-VOL-2] p 19 N91-28193
[NASA-TP-3064] p 21 N91-18216 Low-energy positron flux generator for microstructural	[NASA-CP-3138] p 52 N92-24987	Space Transportation Propulsion Technology Symposium Volume 3: Panel Session Summanes and
characterization of thin films	PRODUCT DEVELOPMENT	Presentations
[NASA-TP-3074] p 27 N91-22538	Technology 2000, volume 2 [NASA-CP-3109-VOL-2] p 52 N91-24041	[NASA-CP-3112-VOL-3] p 19 N91-28235
Positron lifetime measurements in chiral nematic liquid	PROJECT MANAGEMENT	Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft
crystals [NASA-TP-3122] p 46 N92-10677	Twenty-Second Annual NASA Supply and Equipment	(NASA-TP-3103) p.6 N92-10975
POSITRONS	Management Conference [NASA-CP-10042] p 46 N91-11591	Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD
Positron lifetime measurements in chiral nematic liquid	Issues in NASA program and project management	Workshop
crystals [NASA-TP-3122] p 46 N92-10677	[NASA-SP-6101(03)] p 46 N91-13347	[NASA-CP-10079] p 20 N92-11088 Aeropropulsion 1987
[NASA-TP-3122] p 46 N92-10677 POSTFLIGHT ANALYSIS	Issues in NASA program and project management	[NASA-CP-3049] p 12 N92-22510
State estimation applications in aircraft flight-data	[NASA-SP-6101(04)] p 46 N91-28026	Computational Structures Technology for Airframes and
analysis: A user's manual for SMACK	Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD Workshop	Propulsion Systems [NASA-CP-3142] p 31 N92-25911
[NASA-RP-1252] p 10 N91-19082 LDEF: 69 Months in Space First Post-Retrieval	[NASA-CP-10079] p 20 N92-11088	(NASA-CP-3142) p 31 N92-25911 Supersonic Throughflow Fan Test Facility at NASA
Symposium, part 1	Issues in NASA program and project management	Lewis Research Center
[NASA-CP-3134-PT-1] p 52 N92-23280	[NASA-SP-6101(05)] p 47 N92-27609 PROJECT PLANNING	[NASA-TP-3038] p.13 N92-31640
POTENTIAL FLOW	Vision-21: Space Travel for the Next Millennium	Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2
Pariel methods: An introduction [NASA-TP-2995] p.5 N91-19058	(NASA-CP-10059) p 13 N91-22139	[NASA-CP-3163-PT-2] p 27 N92-32245
POWER LOSS	Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD Workshop	PROPULSION SYSTEM PERFORMANCE
Experimental and analytical evaluation of efficiency of	[NASA-CP-10079] p 20 N92-11088	Lunar missions using chemical propulsion. System
helicopter planetary stage [NASA-TP-3063] p 28 N91-12956	Beyond the Baseline 1991: Proceedings of the Space	design issues [NASA-TP-3065] p.19 N91-15308
PRECIPITATION (METEOROLOGY)	Station Evolution Symposium Volume 2: Space Station	Computational Fluid Dynamics Symposium on
The role of water vapor in climate. A strategic research	Freedom, part 2 [NASA-CP-10083-VOL-2-PT-2] p 18 N92-17348	Aeropropulsion
plan for the proposed GEWEX water vapor project	Beyond the Baseline 1991. Proceedings of the Space	[NASA-CP-3078] p 5 N91-21062
(GVaP) (NASA-CP-3120) p 35 N91-25556	Station Evolution Symposium Volume 2: Space Station	Space Transportation Propulsion Technology Symposium Volume 2 Symposium proceedings
PREDICTION ANALYSIS TECHNIQUES	Freedom, part 1 (NASA-CP-10083-VOL-2-PT-1] p 18 N92-17768	[NASA-CP-3112-VOL-2] p.19 N91-28193
Wind turbine acoustics	PROP-FAN TECHNOLOGY	Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD
(NASA-TP-3057) p 44 N91-16679	Annoyance caused by aircraft en route noise [NASA-TP-3165] p.45 N92-20479	Workshop
West Antarctic Ice Sheet Initiative. Volume 1. Science and Implementation Plan.	[NASA-TP-3165] p 45 N92-20479 PROPELLANT ADDITIVES	NASA-CP-10079 p 20 N92-11088 Aeropropulsion 1987
[NASA-CP-3115-VOL-1] p 32 N91-20541	Lunar missions using chemical propulsion: System	[NASA-CP-3049] p 12 N92-22510
Structural Integrity and Durability of Reusable Space	design issues	Supersonic Throughflow Fan Test Facility at NASA
Propulsion Systems	[NASA-TP-3065] p 19 N91-15308 Upper stages using liquid propulsion and metallized	Lewis Research Center
[NASA-CP-10030] p 19 N91-24307 Modeling of the heat transfer in bypass transitional	propellants	[NASA-TP-3038] p.13 N92-31640 Parametric investigation of single-expansion-ramp
boundary-layer flows	[NASA-TP-3191] p 20 N92-17151	nozzles at Mach numbers from 0.60 to 1.20
[NASA-TP-3170] p.27 N92-11299	PROPELLANT COMBUSTION Tenth Workshop for Computational Fluid Dynamic	[NASA-TP-3240] p 9 N92-34193
Correlation and prediction of dynamic human isolated	Applications in Rocket Propulsion, part 1	PROPULSIVE EFFICIENCY
joint strength from lean body mass {NASA-TP-3207} p 4n N92-26682	(NASA-CP-3163-PT-1) p 27 N92-32278	Aeropropulsive characteristics of canted twin- pitch-vectoring nozzles at Mach 0.20 to 1.20
PREDICTIONS	PROPELLER BLADES Acoustic and aerodynamic study of a pusher-propeller	[NASA-TP-3060] p.5 N91-22069
Comparison of jet plume shape predictions and plume	aircraft model	PROSTHETIC DEVICES
influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133	[NASA-TP-3040] p 45 N91-21828	Cable compliance [NASA-TP-3216] p.24 N92 30378
PREMIXED FLAMES	PROPELLER NOISE Acoustic and aerodynamic study of a pusher-propeller	PROTEINS p 24 N92 303/8
Two-dimensional stability of laminar flames	aircraft model	Fuel utilization during exercise after 7 days of bed rest
[NASA-TP-3131] p.7 N92-17131	[NASA-TP-3040] p 45 N91-21828	[NASA-TP-3175] p 38 N92 16554
PRESSES A statistical comparison of two carbon fiber/epoxy	Annoyance caused by advanced turboprop aircraft flyover noise Comparison of different propeller	PROTON IRRADIATION Space Photovoltaic Research and Technology
fabrication techniques	configurations	Conference
[NASA-TP:3179] p.22 N92-20950	[NASA-TP-3104] p.45 N92-11758	[NASA-CP-3121] p.19 N91 30203

PSYCHOACOUSTICS		
	LDEF: 69 Months in Space. First Post-Retrieval	Wind tunnel aerodynamic characteristics of a
Annoyance caused by advanced turboprop aircraft	Symposium, part 2	transport-type airfoil in a simulated heavy rain
flyover noise: Comparison of different propeller	[NASA-CP-3134-PT-2] p 52 N92-24806	environment
configurations	Second LDEF Post-Retrieval Symposium abstracts	[NASA-TP-3184] p.8 N92-31532
(NASA-TP-3104) p 45 N92-11758	[NASA-CP-10097] p 52 N92-27218	RASTER SCANNING
PULSE COMMUNICATION	RADIATION HAZARDS	Definition and design of an experiment to test raster
Flight deck benefits of integrated data link	Radiation risk predictions for Space Station Freedom	scanning with rotating unbalanced-mass devices on
communication	orbits	gimbaled payloads
(NASA-TP-3219) p 10 N92-21459	[NASA-TP-3098] p.51 N91-26107	[NASA-TP-3249] p 24 N92-29677
The effects of video compression on acceptability of	Analyses of risks associated with radiation exposure	REACTING FLOW
images for monitoring life sciences experiments	from past major solar particle events	Stagnation-point heat-transfer rate predictions at
[NASA-TP-3239] p 16 N92-33933	[NASA-TP-3137] p 50 N91-31061	aeroassist flight conditions
PUMP SEALS	RADIATION PROTECTION	[NASA-TP-3208] p 27 N92-31281
Seals Flow Code Development	Cellular track model of biological damage to mammalian	REACTION KINETICS
[NASA-CP-10070] p 15 N92-15082	cell cultures from galactic cosmic rays	Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo
	[NASA-TP-3055] p 50 N91-16981	interinetallic alloy
^	Radiation protection for human missions to the Moon and Mars	[NASA-TP-3044] p 22 N91-13522
Q	[NASA-TP-3079] p 50 N91-17999	AMSAHTS 1990: Advances in Materials Science and
	Transport methods and interactions for space	Applications of High Temperature Superconductors
QUALITY CONTROL	radiations	[NASA-CP-3100] p 22 N92-21605
NASA-LaRc Flight-Critical Digital Systems Technology	[NASA-RP-1257] p 51 N92-15956	An analysis of combustion studies in shock expansion
Workshop	RADIATION SHIELDING	tunnels and reflected shock tunnels
[NASA-CP-10028] p 11 N91-24200	Radiation protection for human missions to the Moon	[NASA-TP-3224] p 22 N92-28374
QUANTUM MECHANICS	and Mars	REACTION TIME
Workshop on Squeezed States and Uncertainty	[NASA-TP-3079] p 50 N91-17999	Reliability of a Shuttle reaction timer
Relations	Improvements in computational accuracy of BRYNTRN	[NASA-TP-3176] p 40 N92-16562
[NASA-CP-3135] p 46 N92-22045	(a baryon transport code)	REACTION WHEELS
QUANTUM OPTICS	[NASA-TP-3093] p 51 N91-23017	Rigid-body-control subsystem sizing for an Earth science
Workshop on Squeezed States and Uncertainty	Analyses of risks associated with radiation exposure	geostationary platform
Relations	from past major solar particle events	[NASA-TP-3087] p 17 N91-22302
[NASA-CP-3135] p 46 N92-22045	[NASA-TP-3137] p 50 N91-31061	REACTOR DESIGN
QUANTUM THEORY	Benchmark solutions for the galactic heavy-ion transport	Vision-21: Space Travel for the Next Millennium
Workshop on Squeezed States and Uncertainty	equations with energy and spatial coupling	[NASA-CP-10059] p 13 N91-22139
Relations	[NASA-TP-3112] p 44 N92-13756	• • • • • • • • • • • • • • • • • • • •
[NASA-CP-3135] p 46 N92-22045	HZETRN: A heavy ion/nucleon transport code for space	Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD
<u>_</u>	radiations	Workshop
R	[NASA-TP-3146] p 51 N92-15959	[NASA-CP-10079] p 20 N92-11088
- 	An efficient HZETRN (a galactic cosmic ray transport	REACTOR TECHNOLOGY
RADAR DETECTION	code)	Vision-21: Space Travel for the Next Millennium
Airborne Wind Shear Detection and Warning Systems:	[NASA-TP-3147] p 51 N92-22218	[NASA-CP-10059] p 13 N91-22139
Third Combined Manufacturers' and Technologists'	RADIATION TOLERANCE	Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD
Conference, part 2	MIRACAL: A mission radiation calculation program for	Workshop
[NASA-CP-10060-PT-2] p 9 N91-24140	analysis of lunar and interplanetary missions	[NASA-CP-10079] p 20 N92-11088
RADAR MEASUREMENT	[NASA-TP-3211] p 51 N92-25100	REAL GASES
Sixteenth International Laser Radar Conference, part	RADIATION TRANSPORT	Hypervelocity atmospheric flight. Real gas flow fields
1	Improvements in computational accuracy of BRYNTRN	[NASA-RP-1249] p 26 N91-20418
[NASA-CP-3158-PT-1] p 28 N92-29228	(a baryon transport code)	Simulation of real-gas effects on pressure distributions
RADIATION COUNTERS	(NASA-TP-3093) p 51 N91-23017	for aeroassist flight experiment vehicle and comparison
Improvements in computational accuracy of BRYNTRN	RADIATIVE HEAT TRANSFER	with prediction
(a baryon transport code)	Stagnation-point heat-transfer rate predictions at	[NASA-TP-3157] p 27 N92-20677
[NASA-TP-3093] p 51 N91-23017	aeroassist flight conditions	Computational Fluid Dynamics numerical methods
Development of the Burst and Transient Source	[NASA-TP-3208] p 27 N92-31281	and algorithm development
Functionant (DATCE)		[NASA-CP-10078] p 12 N92-25808
Experiment (BATSE)	RADIO ASTRONOMY	
[NASA-RP-1268] p 49 N91-32006	The Interstellar Medium in External Galaxies: Summaries	REAL TIME OPERATION
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE	The Interstellar Medium in External Galaxies: Summaries of contributed papers	Fault tolerance of artificial neural networks with
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p. 49 N91-14100	Fault tolerance of artificial neural networks with applications in critical systems
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p. 49 N91-14100 Paired and Interacting Galaxies: International	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981	The Interstellar Medium in External Galaxies: Summanes of contributed papers {NASA-CP-3084} p. 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285 REBREATHING
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology	The Interstellar Medium in External Galaxies: Summanes of contributed papers {NASA-CP-3084} p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 {NASA-CP-3098} p 49 N91-16858	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p. 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p. 49 N91-16858 RADIO EMISSION	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conterence [NASA-CP-3121] p 19 N91-30203	The Interstellar Medium in External Galaxies: Summanes of contributed papers {NASA-CP-3084} p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 {NASA-CP-3098} p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model	The Interstellar Medium in External Galaxies: Summanes of contributed papers {NASA-CP-3084} p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 {NASA-CP-3098} p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple tesion track structure model [NASA-TP-3185] p 39 N92-22186	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3086] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcornings in ground testing, environment simulations, and performance predictions for space	The Interstellar Medium in External Galaxies: Summanes of contributed papers {NASA-CP-3084} p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 {NASA-CP-3098} p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers {NASA-CP-3084} p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p. 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3088] p. 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p. 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3089] p. 48 N91-12401 Responses of women to orthostatic and exercise
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conterence [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3255] p 39 N92-34154	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p. 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3086] p. 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p. 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p. 11 N91-31143 RADIO WAVES Propagation effects for land mobile satellite systems	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3255] p 39 N92-34154	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium:in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation ettacts for land mobile satellite systems: Overview of experimental and modeling results	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code)	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"acts for land mobile satellite systems Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation effects for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3255] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation etacts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 RADIA FION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"octs for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p.17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1968. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space llight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTEN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e''3cts for land mobile satellite systems. Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1968. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3187] p 23 N92-22593 Track structure model of cell damage in space llight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTEN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] Benchmark solutions for the galactic heavy-ion transport	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3084] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-317] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3217] p 23 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight fests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation etter and mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space fissue culture vessel
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation ettracts for land mobile satellite systems. Overview of experimental and modeling results [NASA-RP-1274] RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11950 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3131] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 4 N92-13756 MIRACAL A mission radiation calculation program for	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3084] p 49 N91-16658 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e''acts for land mobile satellite systems Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11950 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] Techniques for determination of impact forces during
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3215] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] n 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation et acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3217] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-317] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3211] p 51 N92-25100	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation ettracts for land mobile satellite systems Overview of experimental and modeling results [NASA-RP-1274] RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3225] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEP Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3127] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling INASA-TP-3112] p 4 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3217] p 51 N92-25100 RADIATION EFFECTS	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3084] p 49 N91-16658 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"acts for land mobile satellite systems. Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators: Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 [International Workshop on Vibration Isolation Isolatio
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3187] p 23 N92-22593 Track structure model of cell damage in space llight [NASA-TP-3217] p 23 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3211] p 51 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e" acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1968. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-13043] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 International Workshop on Vibration Isolation fechnology for Microgravity Science Applications
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[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3225] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-317] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-317] p 4 N92-13756 MIRACAL A mission radiation calculation program for analysis of linar and interplanetary missions [NASA-TP-3217] p 51 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3084] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e''acts for land mobile satellite systems. Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators: Workshop: Update 1968. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 International Workshop on Vibration Isolation rechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space llight [NASA-TP-3215] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3121] p 44 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3211] p 51 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 Collular repair/misrepair track model	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation and cart.	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-13043] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 International Workshop on Vibration Isolation fechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as
RADIATION DAMAGE Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight [NASA-TP-3217] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3211] p 51 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 Cellular repair/misrepair track model [NASA-TP-3324] p 42 N92-11685	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e" acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation and cart [NASA-TP-3084] p 9 N91-21556	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3048] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] international Workshop on Vibration Isolation rechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight (NASA-TP-3217] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3121] p 44 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3121] p 45 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 Collular repair/misrepair track model [NASA-TP-3098] p 52 N91-1685 Transport methods and interactions for space	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation etter for land mobile satellite systems. Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1968. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985. [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation and cart [NASA-TP-3084] p 39 N91-21556	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11950 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-CP-10094] p. 38 N92-17022 International Workshop on Vibration Isolation rechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p. 40 N92-28897
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3187] p 23 N92-22593 Track structure model of cell damage in space llight [NASA-TP-3217] p 23 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 4 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3121] p 51 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3124] p 51 N91-26107 Cellular repair/misrepair track model [NASA-TP-3124] p 42 N92-11685 Transport methods and interactions for space	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3084] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation e"acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators: Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-RP-1274] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation and cart [NASA-RP-3084] p 9 N91-21556	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-13043] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3143] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 International Workshop on Vibration Isolation rechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p. 40 N92-28897
[NASA-RP-1268] p 49 N91-32006 RADIATION DAMAGE Celtular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Space Photovoltaic Research and Technology Conference [NASA-CP-3121] p 19 N91-30203 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 Track structure model of cell damage in space flight (NASA-TP-3217] p 39 N92-34154 RADIATION DOSAGE Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 First LDEF Post-Retrieval Symposium abstracts [NASA-CP-10072] p 52 N91-24972 Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p 50 N91-31061 Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3121] p 44 N92-13756 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3121] p 45 N92-25100 RADIATION EFFECTS Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 Collular repair/misrepair track model [NASA-TP-3098] p 52 N91-1685 Transport methods and interactions for space	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation etter for land mobile satellite systems. Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1968. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985. [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation and cart [NASA-TP-3084] p 39 N91-21556	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3141] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 International Workshop on Vibration Isolation rechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p. 40 N92-28897 REFLECTOR ANTENNAS A new fabrication method for precision antenna
NASA-RP-1268 p 49 N91-32006	The Interstellar Medium in External Galaxies: Summanes of contributed papers [NASA-CP-3084] p 49 N91-14100 Paired and Interacting Galaxies: International Astronomical Union Colloquium No. 124 [NASA-CP-3098] p 49 N91-16858 RADIO EMISSION The Interstellar Medium in External Galaxies: Summaries of contributed papers [NASA-CP-3084] p 49 N91-14100 RADIO FREQUENCIES Flight tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143 RADIO WAVES Propagation et acts for land mobile satellite systems: Overview of experimental and modeling results [NASA-RP-1274] p 25 N92-20404 RADIOGRAPHY National Educators' Workshop: Update 1988. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 RADIOMETERS Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August 1985 [NASA-RP-1243] p 34 N91-14683 Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 RAIL TRANSPORTATION Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation and cart [NASA-TP-3084] p 9 N91-21556	Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p. 42 N92-22285 REBREATHING Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p. 38 N92-16553 REDUCED GRAVITY Measurement and Characterization of the Acceleration Environment on Board the Space Station [NASA-CP-3088] p. 48 N91-12401 Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-13043] p. 17 N91-21188 The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p. 48 N92-11930 The microgravity environment of the Space Shuttle Columbia payload bay during STS-32 [NASA-TP-3143] p. 49 N92-11931 Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p. 24 N92-13340 Techniques for determination of impact forces during walking and running in a zero-G environment [NASA-TP-3159] p. 38 N92-17022 International Workshop on Vibration Isolation rechnology for Microgravity Science Applications [NASA-CP-10094] p. 24 N92-28436 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p. 40 N92-28897

REFLECTORS	NASA scientific and technical publications: A catalog	Automation and Robotics for Space-Based Systems,
A new fabrication method for precision antenna reflectors for space flight and ground test	of special publications, reference publications, conference publications, and technical papers, 1987-1990	1991 {NASA-CP-10098} p.43 N92-27763
[NASA-TP-3078] p 17 N91-21185	[NASA-SP-7063(05)] p 47 N91-24939	ROBOT DYNAMICS
REFRACTORY MATERIALS	RESCUE OPERATIONS	A generalized method for multiple robotic manipulator
High-temperature durability considerations for HSCT combustor	Numerical analysis and simulation of an assured crew	programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218
[NASA-TP-3162] p 23 N92-17070	return vehicle flow field {NASA-TP-3101} p 26 N92-10161	ROBOTICS P 24 (492-11216
REGENERATION (PHYSIOLOGY)	RESEARCH AND DEVELOPMENT	Fourth Annual Workshop on Space Operations
Biological Life Support Technologies: Commercial	Microbiology on Space Station Freedom	Applications and Research (SOAR 90)
Opportunities [NASA-CP-3094] p 36 N91-13842	(NASA-CP-3108) p 37 N91-18573 Proceedings of the X-15 First Flight 30th Anniversary	[NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth NASA Workshop on Computational Control of
Controlled Ecological Life Support Systems: Natural and	Celebration	Flexible Aerospace Systems, part 2
Artificia: Ecosystems	[NASA-CP-3105] p 10 N91-20071	[NASA-CP-10065-PT-2] p 17 N91-22331
[NAS4 3P-10040] p 40 N91-24744	National Educators' Workshop: Update 1988. Standard	The 1991 Goddard Conference on Space Applications
REGRESSION ANALYSIS Correlation and prediction of dynamic human isolated	Experiments in Engineering Materials Science and Technology	of Artificial Intelligence [NASA-CP-3110] p.43 N91-22769
joint strength from lean body mass	[NASA-CP-3060] p 20 N91-20207	Technology 2000, volume 1
[NASA-TP-3207] p 40 N92-26682	The Federal Conference on Intelligent Processing	[NASA-CP-3109-VOL-1] p 52 N91-23021
REGULATIONS	Equipment p 52 N92-24987	The 25th Aerospace Mechanisms Symposium [NASA-CP-3113] p 30 N91-24603
Twenty-Second Annual NASA Supply and Equipment Management Conference	[NASA-CP-3138] p 52 N92-24987 Computational Fluid Dynamics numerical methods	Large space structures and systems in the space station
[NASA-CP-10042] p 46 N91-11591	and algorithm development	era: A bibliography with indexes (supplement 03)
REINFORCED PLATES	[NASA-CP-10078] p 12 N92-25808	[NASA-SP-7085(03)] p 18 N92-22317
Experimental behavior of graphite-epoxy Y-stiffened	RESEARCH FACILITIES Engines and innovation: Lewis Laboratory and American	Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2
specimens loaded in compression [NASA-TP-3171] p 30 N92-23115	propulsion technology	[NASA-CP-3127-VOL-2] p 41 N92-22324
RELATIVE BIOLOGICAL EFFECTIVENESS (RBE)	[NASA-SP-4306] p 51 N91-15975	Technology 2001: The Second National Technology
Cellular track model of biological damage to mammalian	NASA Wallops Flight Facility Air-Sea Interaction	Transfer Conference and Exposition, volume 1
cell cultures from galactic cosmic rays	Research Facility [NASA-RP-1277] p 36 N92-25981	[NASA-CP-3136-VOL-1] p 52 N92-22423 Technology 2001: The Second National Technology
[NASA-TP-3055] p 50 N91-16981	Sixteenth International Laser Radar Conference, part	Transfer Conference and Exposition, volume 2
Cellular repair/misrepair track model {NASA-TP-3124} p 42 N92-11685	1	(NASA-CP-3136-VOL-2) p 52 N92-22676
Track structure model of cell damage in space flight	[NASA-CP-3158-PT-1] p 28 N92-29228	Automation and Robotics for Space-Based Systems,
[NASA-TP-3235] p 39 N92-34154	RESEARCH PROJECTS Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD	1991 [NASA-CP-10098] p.43 N92-27763
RELATIVISTIC PARTICLES	Workshop	Ongoing Progress in Spacecraft Controls
Inclusive inelastic scattering of heavy ions and nuclear	[NASA-CP-10079] p 20 N92-11088	[NASA-CP-10099] p 19 N92-28730
correlations [NASA-TP-3026] p 46 N91-13985	RESIDUAL STRENGTH	Cable compliance
RELIABILITY p 46 N93-13965	An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R)	(NASA-TP-3216) p 24 N92-30378 ROBOTS
Reliability training	[NASA-TP-3160] p 21 N92-11142	Automation and Robotics for Space-Based Systems,
[NASA-RP-1253] p 15 N92-32456	RESILIENCE	1991
RELIABILITY ANALYSIS	Effect of temperature and gap opening rate on the	(NASA-CP-10098) p 43 N92-27763
Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound	resiliency of candidate solid rocket booster O-ring materials	Development of a truss joint for robotic assembly of
[NASA-TP-3089] p 43 N91-25741	[NASA-TP-3226] p 23 N92-27194	space structures [NASA-TP-3214] p 31 N92-27974
Structural deterministic safety factors selection criteria	RESONANT VIBRATION	ROBUSTNESS (MATHEMATICS)
and verification	Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p.25 N91-15499	On the formulation of a minimal uncertainty model for
[NASA-TP-3203] p 30 N92-19355	(NASA-TP-3052) p 25 N91-15499 RESOURCE ALLOCATION	robust control with structured uncertainty
Advanced techniques in reliability model representation and solution	Space Network Control Conference on Resource	[NASA-TP-3094] p 13 N92-10027
[NASA-TP-3242] p 43 N92-33483	Allocation Concepts and Approaches	ROCKET ENGINE DESIGN Nuclear Thermal Propulsion, A Joint NASA/DOE/DOD
RELIABILITY ENGINEERING	[NASA-CP-3124] p 16 N92-11039 RESOURCES MANAGEMENT	Workshop
NASA-LaRc Flight-Critical Digital Systems Technology	Resource envelope concepts for mission planning	(NASA-CP-10079) p 20 N92-11088
Workshop [NASA-CP-10028] p 11 N91-24200	[NASA-TP-3139] p 15 N91-29209	Rocket-Based Combined-Cycle (RBCC) Propulsion
Fault tolerance of artificial neural networks with	REUSABLE ROCKET ENGINES	Technology Workshop Tutorial session [NASA-CP-10090] p 20 N92-21517
applications in critical systems	Structural Integrity and Durability of Reusable Space Propulsion Systems	Tenth Workshop for Computational Fluid Dynamic
[NASA-TP-3187] p 42 N92-22285	[NASA-CP-10030] p 19 N91-24307	Applications in Rocket Propulsion, part 2
RELIEF MAPS	REYNOLDS NUMBER	[NASA-CP-3163-PT-2] p 27 N92-32245
Atlas of wide-field-of-view outgoing longwave radiation derived from Nimbus 7 Earth radiation budget data set,	Comparison of a two-dimensional adaptive-wall technique with analytical wall interference correction	ROCKET ENGINES
November 1985 to October 1987	techniques	Rocket-Based Combined-Cycle (RBCC) Propulsion Technology Workshop, Tutorial session
[NASA-RP-1261] p 35 N91-24719	[NASA-TP-3132] p 7 N92-20494	[NASA-CP-10090] p 20 N92-21517
REMOTE MANIPULATOR SYSTEM	RHEOLOGY	ROCKET EXHAUST
Automation and Robotics for Space-Based Systems, 1991	Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing/anti-icing fluids	Optical measurements on solid specimens of solid rocket
[NASA-CP-10098] p 43 N92-27763	[NASA-TP-3238] p 10 N92-30395	motor exhaust and solid rocket motor slag (NASA-TP-3177) p 20 N92-20949
REMOTE SENSING	RIGID STRUCTURES	ROCKET NOSE CONES
Multisource Data Integration in Remote Sensing	Rigid-body-control subsystem sizing for an Earth science	Computational methods for frictionless contact with
[NASA-CP-3099] p 32 N91-15615 NASA/MSFC FY90 Global Scale Atmospheric	geostationary platform [NASA-TP-3087] p.17 N91-22302	application to Space Shuttle Orbiter nose-gear tires
Processes Research Program Review	ROBOT ARMS	[NASA-TP-3073] p 30 N91-22576
(NASA-CP-3093) p 35 N91-16500	A generalized method for multiple robotic manipulator	ROLLING CONTACT LOADS Computational methods for frictionless contact with
Sixteenth International Laser Radar Conference, part	programming applied to vertical-up welding	application to Space Shuttle Orbiter nose-gear tires
1	[NASA-TP-3163] p 24 N92-11218 Automation and Robotics for Space-Based Systems,	[NASA-TP-3073] p 30 N91-22576
[NASA-CP-3158-PT-1] p 28 N92-29226 Sixteenth International Laser Radar Conference, part	1991	ROLLING MOMENTS
2	(NASA-CP-10098) p 43 N92-27763	A nozzle internal performance prediction method (NASA-TP-3221) p.8 N92-33625
[NASA-CP-3158-PT-2] p 28 N92-31013	Cable compliance [NASA-TP-3216] p 24 N92-30378	ROTARY WINGS
REMOTE SENSORS	ROBOT CONTROL	Development of a full-scale transmission testing
Multisource Data Integration in Remote Sensing	Fourth NASA Workshop on Computational Control of	procedure to evaluate advanced lubricants
[NASA-CP-3099] p 32 N91-15515 RENE 41	Flexible Aerospace Systems, part 1	[NASA-TP-3265] p 28 N92-30396 ROTATING BODIES
Thermal and structural tests of Rene 41 honeycomb	[NASA-CP-10065-PT-1] p 17 N91-22307 The effect of bandwidth on telerobot system	Definition and design of an experiment to test raster
integral-tank concept for future space transportation	performance	scanning with rotating unbalanced mass devices on
systems	[NASA-TP-3152] p 28 N91-30540	gimbaled payloads
[NASA-TP-3145] p 30 N92-24205 REPORTS	A generalized method for multiple robotic manipulator	(NASA-TP 3249) p 24 N92-29677
NASA scientific and technical publications: A catalog	programming applied to vertical-up welding [NASA-TP-3163] p.24 N92-11218	ROTATING FLUIDS Experimental measurement of the orbital paths of
of special publications, reference publications, conference	The Federal Conference on Intelligent Processing	particles sedimenting within a rotating viscous fluid as
publications, and technical papers, 1989	Equipment	influenced by gravity
[NASA-SP-7063(04)] p 47 N91-13374	[NASA-CP-3138] p 52 N92-24987	[NASA-TP-3200] p 40 N92-28897

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Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on

INASA-TP-32821 p 25 N92-33601

inertial oscillation of a vertical rotating draft with application to a supercell storm: Video supplement to NASA Technical Paper 3230

[NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246

ROTOR AERODYNAMICS

Transonic flow analysis for rotors. Part 3: Three-dimensional, quasi-steady, Euler calculation INASA-TP-23751 p 3 N91-10007

ROTOR DYNAMICS

Limit cycle vibrations in turbomachinery

[NASA-TP-3181] p 20 N92-14108 Rotordynamic Instability Problems in High-Performance

Turbomachinery, 1990 INASA-CP-31221 p 28 N92-14346

ROTORS

Limit cycle vibrations in turbomachinery [NASA-TP-3181] p.

p 20 N92-14108

RUNGE-KUTTA METHOD

Validation of three-dimensional incompressible spatial direct numerical simulation code: A comparison with linear stability and parabolic stability equation theories for boundary-layer transition on a flat plate [NASA-TP-3205] p 8 N92-30295

SAFETY

Twenty-Second Annual NASA Supply and Equipment Management Conference (NASA-CP-10042)

p 46 N91-11591 SAFETY FACTORS

Plate and butt-weld stresses beyond elastic limit,

material and structural modeling INASA-TP-30751 p 29 N91-16413

Flight tests with a data link used for air traffic control

information exchange [NASA-TP-3135] p 11 N91-31143

Structural deterministic safety factors selection cnteria and verification

INASA-TP-32031 p 30 N92-19355

SAFETY MANAGEMENT

The development of the NASA aviation safety reporting system

[NASA-RP-1114] p 10 N91-70436

SAGE SATELLITE

SAGE 1 data user's guide [NASA-RP-1275] p.34 N92-33097

SAMARIUM

The 23 to 300 C demagnetization resistance of

samarium-cobalt permanent mugnets INASA-TP-31191 p 25 N92-11252

SANDS

Sand and Dust on Mars

[NASA-CP-10074] p 50 N91-27057

SANDWICH STRUCTURES

Optimization of composite sandwich cover panels

subjected to compressive loadings p 21 N92-20679 [NASA-TP-3173]

Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation systems

NASA-TP-31451 p 30 N92-24205

SATELLITE ANTENNAS

A new fabrication method for precision antenna reflectors for space flight and ground test

NASA-TP-3078 p 17 N91-21185

SATELLITE ATTITUDE CONTROL

Flight Mechanics/Estimation Theory Symposium, 1990 NASA-CP-31021 p 14 N91-17073

Rigid-body-control subsystem sizing for an Earth science geostationary platform INASA-TP-30871 p 17 N91-22302

A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros p 24 N92-13343

[NASA-TP-3178] SATELLITE COMMUNICATION

Space Communications Technology Conference Onboard Processing and Switching

NASA-CP-3132 p 25 N92-14202 Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications

satellite network NASA-TP-3201 p 16 N92-19762 Advanced Modulation and Coding Technology Conference

[NASA-CP-10053] p 16 N92-22001 SATELLITE CONTROL

A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope

INASA-TP-31231 p 42 N91-25629 SATELLITE INSTRUMENTS

The 22nd Annual Precise Time and Time Interval (PTTI) Applications and Planning Meeting

INASA-CP-31161 p 44 N91-25755 Advanced Modulation and Coding Technology Conference

[NASA-CP-10053] p 16 N92-22001

SAGE 1 data user's guide [NASA-RP-1275] p 34 N92-33097

Proceedings of the 23rd Annual Precise Time and Time Interval (PTTI) Applications and Planning Meeting INASA-CP-31591 p 44 N92-33350

SATELLITE NETWORKS

Space Communications Technology Conference. Onboard Processing and Switching INASA-CP-31321 p 25 N92-14202

Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications

NASA-TP-32011 p 16 N92-19762

SATELLITE OBSERVATION

FIRE Science Results 1988

[NASA-CP-3083] p 34 N91-10448

Atlas of wide-field-of-view outgoing longwave radiation derived from Nimbus 7 Earth radiation budget data set, November 1985 to October 1987

[NASA-RP-1261] p 35 N91-24719 Atlas of the Earth's radiation budget as measured by

Nimbus-7: May 1979 to May 1980 [NASA-RP-1263] p 35 N91-24720 NASA/MSFC FY91 Global Scale Atmospheric

Processes Research Program Review [NASA-CP-3126] p 35 N91-32660

SATELLITE TEMPERATURE

LDEF: 69 Months in Space. First Post-Retrieval Symposium, part 3

INASA-CP-3134-PT-31 p.52 N92-27083

SATELLITES

Shortcomings in ground testing, environment simulations, and performance predictions for space applications

[NASA-TP-3217] p 23 N92-22593

SATURATION (CHEMISTRY)

Saturation point model for the formation of metal nitrate in nurogan tetroxide oxidizer [NASA-TP-3107]

p 26 N91-24542

SATURN 5 LAUNCH VEHICLES

The role of failure/problems in engineering: A commentary of failures experienced - lessons lea INASA-TP-32131 p 24 N92-22235

SCALE MODELS

Low-speed, powered ground effects of a generic, hypersonic configuration [NASA-TP-3092] p 5 N91-25103 Wind tunnel aerodynamic characteristics of a

transport-type airfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532

SCANNERS

Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads NASA-TP-32821

SCANNING

Re-onfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on gimbaled payloads

NASA-TP-32821

p 25 N92-33601

SCIENTISTS NASA engineers and the age of Apollo [NASA-SP-4104]

Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p 25 N91-15499

p 52 N92-28344

p 23 N92-27194

SEA LEVEL

West Antarctic Ice Sheet Initiative. Volume 2: Discipline [NASA-CP-3115-VOL-2] p 32 N91-26573

SEALING

Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring materials

(NASA-TP-32261

Effect of crash pulse shape on seat stroke requirements

for limiting loads on occupants of aircraft [NASA-TP-3126] p. p 30 N92-18053 SEDIMENTS

Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity

INASA-TP-32001 p 40 N92-28897 SELECTION

First among equals: The selection of NASA space

science experiments [NASA-SP-4215] p 52 N91-28060

SEMISPAN MODELS Full-scale semispan tests of a business-jet wing with a

natural laminar flow airfoil [NASA-TP-3133] p 6 N91-30098

NACA 0015 wing pressure and trailing vortex measurements

NASA-TP-3151 p 6 N92-10981 SENSORY PERCEPTION

Human Machine Interfaces for Teleoperators and Virtual

Environments Conference INASA-CP-100711 p 40 N92-11638

SERVICE LIFE

Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps

[NASA-RP-1273] p 23 N92-20063 Reliability training

p 15 N92-32456

p 21 N91-21242

o 11 N92-33874

INASA-RP-12531 SERVOCONTROL

Development of an integrated aeroservoelastic analysis

program and correlation with test data NASA-TP-31201 p 2 N91-26113

SERVOMECHANISMS Definition and design of an experiment to test raster

scanning with rotating unbalanced-mass devices on aimbaled payloads NASA-TP-32491 p 24 N92-29677

Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on cimbaled payloads

NASA-TP-32821 p 25 N92-33601 SERVOMOTORS

Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on

gimbaled payloads | NASA-TP-3249 | p 24 N92-29677 Reconfiguring the RUM & ent to test circular scanning with rotating unbalanced-mass devices on

gimbaled payloads INASA-TP-3282) p 25 N92-33601

SET THEORY

Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume

INASA-CP-10061-VOL-21 p 43 N91-20811 Effect of crash pulse shape on seat stroke requirements

for limiting loads on occupants of aircraft INASA-TP-31261 p 30 N92-18053 Comparison of jet plume shape predictions and piume

influence on sonic boom signature NASA-TP-31721 p.7 N92-25133

SHEAR STRENGTH A novel method of testing the shear strength of thick honeycomb composites

[NASA-TP-3108]

SHOCK ABSORBERS Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space

Station crew and equipment translation aid cart p 29 N91-21556

INASA-TP-30841

SHOCK LAYERS Stagnation-point heat-transfer rate predictions at

eroassist flight conditions (NASA-TP-3208)

p 27 N92-31281 SHOCK TUNNELS An analysis of combustion studies in shock expansion

tunnels and reflected shock tunnels

NASA-TP-32241 p 22 N92-28374 SHOCK WAVE INTERACTION Shock wave interaction with an abrupt area change

[NASA-TP-3113]

p 6 N91-27140 SHOCK WAVE PROPAGATION High-Speed Research: Sonic Boom, volume 1

NASA-CP-31721 SHOCK WAVES

Shock wave interaction with an abrupt area change NASA-TP-31131 p.6 N91-27140 [ELIC-ALASAN] A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference

p 27 N92-24797

(NASA-TP-31671

SHORT TAKEOFF AIRCRAFT NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7:12

NASA-CP-10038-VOL-21 p.4 N91-10858 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p.6 N92-10975

The validation of a human force model to predict dynamic forces resulting from multi-joint motions	SOFTWARE TOOLS	Biological Life Support Technologies Commercial
	Second CLIPS Conference Proceedings, volume 2 (NASA-CP-10085-VOL-2) p 42 N92-16590	Opportunities [NASA-CP-3094] p 36 N91-13842
(NASA-TP-3206) p 40 N92-26538	Advanced techniques in reliability model representation	Large space structures and systems in the space station
SIGNAL ANALYSIS	and solution	era. A bibliography with indexes (supplement 03)
Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution	[NASA-TP-3242] p 43 N92-33483	[PASA-SP-7085(03)] p 18 N92-22317 Development of a truss joint for robotic assembly of
[NASA-TP-3215] p 25 N92-20492	SOLAR ACTIVITY EFFECTS Climate Impact of Solar Variability	space structures
SIGNAL PROCESSING	(NASA-CP-3086) p 50 N91-12456	[NASA-TP-3214] p 31 N92-27974
Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 1	SOLAR ARRAYS	SPACE COMMUNICATION Space Network Control Conference on Resource
[NASA-CP-10061-VOL-1] p 43 N91-21778	Space Photovoltaic Research and Technology, 1989 [NASA-CP-3107] p 19 N91-19182	Allocation Concepts and Approaches
Space and Earth Science Data Compression	MILSTAR's flexible substrate solar array: Lessons	[NASA-CP-3124] p 16 N92-11039
Workshop [NASA-CP-3130] p 41 N92-12425	learned, addendum	Space Communications Technology Conference Onboard Processing and Switching
Time-frequency representation of a highly nonstationary	[NASA-CP-3147-ADD] p 33 N92-26895	[NASA-CP-3132] p 25 N92-14202
signal via the modified Wigner distribution	Influence of mass moment of inertia on normal modes of preloaded solar array mast	SPACE DEBRIS
[NASA-TP-3215] p 25 N92-20492 SIGNATURES	[NASA-TP-3273] p 31 N92-33476	Optical measurements on solid specimens of solid rocket motor exhaust and solid rocket motor slag
Comparison of jet plume shape predictions and plume	SOLAR CELLS	[NASA-TP-3177] p 20 N92-20949
Influence on sonic boom signature [NASA-TP-3172] p.7 N92-25133	Space Photovoltaic Research and Technology, 1989 [NASA-CP-3107] p 19 N91-19182	Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2
SILICON CARBIDES	Space Photovoltaic Research and Technology	[NASA-CP-3127-VOL-2] p 41 N92-22324
Gibbs free energy of reactions involving SiC, Si3N4, H2,	Conference	Orbital debris. Technical issues and future directions
and H2O as a function of temperature and pressure [NASA-TP-3275] p.23 N92-31278	[NASA-CP-3121] p 19 N91-30203 SOLAR CORPUSCULAR RADIATION	[NASA-CP-10077] p 49 N92-33478 SPACE ENVIRONMENT SIMULATION
SILICON NITRIDES	Analyses of risks associated with radiation exposure	Sixteenth Space Simulation Conference Confirming
Gibbs free energy of reactions involving SiC, Si3N4, H2,	from past major solar particle events	Spaceworthiness into the Next Millennium
and H2O as a function of temperature and pressure [NASA-TP-3275] p.23 N92-31278	[NASA-TP-3137] p 50 N91-31061 SOLAR RADIATION	[NASA-CP-3096] p 17 N91-19126 SPACE ERECTABLE STRUCTURES
SILVER ZINC BATTERIES	Climate Impact of Solar Variability	Launch vehicle integration options for a large Earth
The 1991 NASA Aerospace Battery Workshop	[NASA-CP-3086] p 50 N91-12456	sciences geostationary platform concept
[NASA-CP-3140] p 33 N92-22740 The 1990 NASA Aerospace Battery Workshop	SOLAR SYSTEM Planetary geosciences, 1989-1990	[NASA-TP-3083] p. 15 N91-27180 Packaging, development, and on-orbit assembly options
[NASA-CP-3119] p 20 N92-27130	[NASA-SP-508] p 50 N92-28345	for large geostationary spacecraft
SIMULATION	SOLID MECHANICS	[NASA-TP-3088] p 17 N91-27182
NASA Computational Fluid Dynamics Conference. Volume 1 Sessions 1-6	Improved accuracy for finite element structural analysis via a new integrated force method	Development of a truss joint for robotic assembly of space structures
[NASA-CP-10038-VOL-1] p 4 N91-10839	[NASA-TP-3204] p 30 N92-22227	(NASA-TP-3214) p 31 N92-27974
Simulation of real-gas effects on pressure distributions	SOLID PROPELLANT ROCKET ENGINES	Software design for automated assembly of truss
for aeroassist flight experiment vehicle and comparison with prediction	Axisymmetric shell analysis of the space shuttle solid rocket booster field joint	structures [NASA-TP-3198] p.43 N92-28375
[NASA-TP-3157] p 27 N92-20677	[NASA-TP-3033] p 28 N91-14618	SPACE EXPLORATION
SINGLE EVENT UPSETS	Optical measurements on solid specimens of solid rocket	Exobiology on Mars
Shortcomings in ground testing, environment simulations, and performance predictions for space	motor exhaust and solid rocket motor slag [NASA-TP-3177] p 20 N92-20949	[NASA-CP-10055] p 41 N91-15691 Vision-21: Space Travel for the Next Millennium
applications	Tenth Workshop for Computational Fluid Dynamic	[NASA-CP-10059] p 13 N91-22139
[NASA-TP-3217] p 23 N92-22593 SKIN TEMPERATURE (NON-BIOLOGICAL)	Applications in Rocket Propulsion, part 2	International exploration of Mars A special
Numerical studies of convective cooling for a locally	(NASA-CP-3163-PT-2) p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic	bibliography [NASA-SP-7091] p 49 N91-24965
heated skin	Applications in Rocket Propulsion, part 1	MIRACAL: A mission radiation calculation program for
[NASA-TP-3100] p 26 N91-22509 SLAGS	[NASA-CP-3163-PT-1] p 27 N92-32278	analysis of lunar and interplanetary missions [NASA-TP-3211] p 51 N92-25100
Optical measurements on solid specimens of solid rocket	SOLID ROCKET PROPELLANTS Optical measurements on solid specimens of solid rocket	(NASA-TP-3211) p 51 N92-25100 Ongoing Progress in Spacecraft Controls
motor exhaust and solid rocket motor stag	motor exhaust and solid rocket motor slag	[NASA-CP-10099] p 19 N92-28730
[NASA-TP-3177] p 20 N92-20949 SLENDER WINGS	[NASA-TP-3177] p 20 N92-20949 SONIC BOOMS	Electrical and chemical interactions at Mars Workshop, part 1
Wind tunnel investigation of the interaction and	A loudness calculation procedure applied to shaped	[NASA-CP-10093] p 50 N92-30302
breakdown characteristics of slender wing vortices at	sonic booms	SPACE FLIGHT
subsonic, transonic, and supersonic speeds (NASA-TP-3114) p.6 N92-12994	(NASA-TP-3134) p 45 N92-11765	Proceedings of the X-15 First Flight 30th Anniversary Gelebration
(NASA-TP-3114) p.6 N92-12994 The natural flow wing-design concept	(NASA-TP-3134) p 45 N92-11765 The atmospheric effects of stratospheric aircraft: A first program report	Proceedings of the X-15 First Flight 30th Anniversary Celebration [NASA-CP-3105] p.10 N91-20071
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p.33 N92-19121	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33 N92-19121 Companson of jet plume shape predictions and plume	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom
[NASA-TP-3114] p.6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p.7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p.33 N92-19121	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p.7 N92-25133 High-Speed Research: Sonic Boom, volume 1	Celebration [NASA-CP-3146] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p. 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p. 11 N92-33874	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p.7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p.11 N92-33874 SOOT International Workshop on Stratospheric Aerosols:	Celebration [NASA-CP-3146] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory hitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research Sonic Boom, volume 1 {NASA-CP-3172} p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects {NASA-CP-3114} p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory hitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit: The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propeliants
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory hitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 {NASA-CP-3172} p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects {NASA-CP-3114} p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit: The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory hitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium.	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory hitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science internet User Working Group Conference	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit: The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory litting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-12481] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-1004] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propelliants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science internet User Working Group Conference	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-16682	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit: The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 2 Space Station Freedom. parl 2	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-RP-1372] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind turnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-15848	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 Visually Guided Control of Movement
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MIL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory litting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 2 Space Station Freedom, part 2 [NASA-CP-10083-VOL-2-PT-2] p 18 N92-17348	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Wind turbine acoustics [NASA-RP-1248] p 44 N91-15848 Wind turbine acoustics [NASA-RP-3057] p 44 N91-15679 SPACE CHARGE	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propelliants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 Visually Guided Control of Movement [NASA-CP-3118] p 39 N92-21467
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 2 Space Station Freedom. parl 2	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research. Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-15679 SPACE CHARGE Current Collection from Space Plasmas	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 Visually Guided Control of Movement
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2. Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science Internet User Working Group Conference [NASA-CP-3117] Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 2. Space Station Freedom. parl 2 [NASA-CP-10083-VOL-2-PT-2] p 18 N92-17348 Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p 42 N92-24397	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Internal nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-15848 Current Collection from Space Plasmas [NASA-CP-3089] p 46 N91-17713	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 Visually Guided Control of Movement [NASA-CP-3118] p 39 N92-21467 SPACE PLASMAS Current Collection from Space Plasmas [NASA-CP-3089] p 46 N91-17713
[NASA-TP-3114] p 6 N92-12994 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 SLUSH HYDROGEN Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-25147 SMALL SCIENTIFIC SATELLITES Small Explorer Data System MiL-STD-1773 fiber optic bus [NASA-TP-3227] p 16 N92-26667 SMOOTHING Trajectory fitting in function space with application to analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 SODIUM SULFUR BATTERIES The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740 SOFTWARE ENGINEERING Space Transportation Avionics Technology Symposium. Volume 2 Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020 Proceedings of the Second Annual NASA Science internet User Working Group Conference [NASA-CP-3117] p 48 N91-27009 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 2 Space Station Freedom, part 2 [NASA-CP-10083-VOL-2-PT-2] p 18 N92-17348 Software Surface Modeling and Grid Generation Steering Committee	The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 Companson of jet plume shape predictions and plume influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133 High-Speed Research: Sonic Boom, volume 1 [NASA-CP-3172] p 11 N92-33874 SOOT International Workshop on Stratospheric Aerosols: Measurements, Properties, and Effects [NASA-CP-3114] p 32 N91-32528 SOUND FIELDS J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823 SOUND PROPAGATION Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Fourth Interna. nal Symposium on Long-Range Sound Propagation [NASA-CP-3101] p 44 N91-16682 SOUND WAVES Monograph on propagation of sound waves in curved ducts [NASA-RP-1248] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-15848 Wind turbine acoustics [NASA-TP-3057] p 44 N91-16679 SPACE CHARGE Current Collection from Space Plasmas [NASA-CP-3089] p 46 N91-17713	Celebration [NASA-CP-3105] p 10 N91-20071 SPACE FLIGHT FEEDING Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 SPACE LABORATORIES Exobiology in Earth orbit. The results of science workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 SPACE MANUFACTURING International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094] p 24 N92-28436 SPACE MISSIONS Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 SPACE OBSERVATIONS (FROM EARTH) Space and Earth Science Data Compression Workshop [NASA-CP-3130] p 41 N92-12425 SPACE PERCEPTION Effect of short-term exposure to stereoscopic three-dimensional flight displays on real-world depth perception [NASA-TP-3117] p 11 N92-13065 Visually Guided Control of Movement [NASA-CP-3118] p 39 N92-21467 SPACE PLASMAS Current Collection from Space Plasmas

	Beyond the Baseline 1991: Proceedings of the Space	SPACE TRANSPORTATION SYSTEM
Measurement and Characterization of the Acceleration	Station Evolution Symposium. Volume 1: Space Station	Space Transportation Avionics Technology Symposium.
Environment on Board the Space Station	Freedom, part 2	Volume 2: Conference Proceedings
[NASA-CP-3088] p 48 N91-12401	[NASA-CP-10083-VOL-1-PT-2] p 18 N92-17409	[NASA-CP-3081-VOL-2] p 11 N91-17020
Space Station Freedom Toxic and Reactive Materials	Beyond the Baseline 1991; Proceedings of the Space	Manual Control Aspects of Orbital Flight
Handling	Station Evolution Symposium Volume 2: Space Station	[NASA-CP-10056] p 13 N91-29147
[NASA-CP-3085] p 48 N91-15930	Freedom, part 1 (NASA-CP-10083-VOL-2-PT-1) p 18 N92-17768	Space Transportation Propulsion Technology
SPACE SHUTTLE BOOSTERS	Nutritional Requirements for Space Station Freedom	Symposium Volume 1: Executive summary
Axisymmetric shell analysis of the space shuttle solid rocket booster field joint	Crews	(NASA-CP-3112) p 19 N91-25176
[NASA-TP-3033] p 28 N91-14618	(NASA-CP-3146) p 40 N92-25961	Space Transportation Propulsion Technology Symposium, Volume 2, Symposium proceedings
Optical measurements on solid specimens of solid rocket	MILSTAR's flexible substrate solar array: Lessons	[NASA-CP-3112-VOL-2] p 19 N91-28193
motor exhaust and solid rocket motor slag	learned, addendum	Space Transportation Propulsion Technology
[NASA-TP-3177] p 20 N92-20949	[NASA-CP-3147-ADD] p 33 N92-26895	Symposium Volume 3: Panel Session Summanes and
The role of failure/problems in engineering: A	International Workshop on Vibration Isolation	Presentations
commentary of failures experienced - lessons learned	Technology for Microgravity Science Applications [NASA-CP-10094] p 24 N92-28436	[NASA-CP-3112-VOL-3] p 19 N91-28235
[NASA-TP-3213] p 24 N92-22235	SPACE STATION PAYLOADS	Upper stages using liquip propulsion and metallized
SPACE SHUTTLE MAIN ENGINE	Space Station Freedom Toxic and Reactive Materials	propellants
Limit cycle vibrations in turbomachinery	Handling	[NASA-TP-3191] p 20 N92-17151
[NASA-TP-3181] p 20 N92-14108	[NASA-CP-3085] p 48 N91-15930	The High Resolution Accelerometer Package (HiRAP)
Time-frequency representation of a highly nonstationary	SPACE STATIONS	flight experiment summary for the first 10 flights
signal via the modified Wigner distribution	Measurement and Characterization of the Acceleration	[NASA-RP-1267] p 3 N92-22505
[NASA-TP-3215] p 25 N92-20492	Environment on Board the Space Station	SPACEBORNE EXPERIMENTS
The role of failure/problems in engineering: A	[NASA-CP-3088] p 48 N91-12401	Exobiology in Earth orbit. The results of science
commentary of failures experienced - lessons learned [NASA-TP-3213] p 24 N92-22235	Radiation protection for human missions to the Moon and Mars	workshops held at NASA, Ames Research Center
·	[NASA-TP-3079] p 50 N91-17999	[NASA-SP-500] p 41 N91-14725
Effect of type of load on stress analysis of thin-walled ducts	Large space structures and systems in the space station	First among equals: The selection of NASA space science experiments
[NASA-TP-3248] p 31 N92-26669	era: A bibliography with indexes	[NASA-SP-4215] p 52 N91-28060
Tenth Workshop for Computational Fluid Dynamic	[NASA-SP-7085(01)] p 17 N91-18199	Development of the Burst and Transient Source
Applications in Rocket Propulsion, part 2	Microbiology on Space Station Freedom	Experiment (BATSE)
[NASA-CP-3163-PT-2] p 27 N92-32245	[NASA-CP-3108] p 37 N91-18573	[NASA-RP-1268] p 49 N91-32006
SPACE SHUTTLE MISSION 61-C	Manual Control Aspects of Orbital Flight	The microgravity environment of the Space Shuttle
The microgravity environment of the Space Shuttle	[NASA-CP-10056] p 13 N91-20147	Columbia middeck during STS-32
Columbia payload bay during STS-32	Benefits from synergies and advanced technologies for	[NASA-TP-3140] p 48 N92-11930
[NASA-TP-3141] p 49 N92-11931	an advanced-technology space station (NASA-TP-3067) p 14 N91-20177	The microgravity environment of the Space Shuttle
SPACE SHUTTLE ORBITERS	(NASA-TP-3067) p 14 N91-20177 Fourth Annual Workshop on Space Operations	Columbia payload bay during STS-32
Fourth Annual Workshop on Space Operations	Applications and Research (SOAR 90)	[NASA-TP-3141] p 49 N92-11931
Applications and Research (SOAR 90)	(NASA-CP-3103-VOL-2) p 41 N91-20702	LDEF: 69 Months in Space. First Post-Retneval
(NASA-CP-3103-VOL-2) p 41 N91-20702	Determination of the flight hardware configuration of an	Symposium, part 1
Computational methods for frictionless contact with	energy absorbing attenuator for the proposed Space	[NASA-CP-3134-PT-1] p 52 N92-23280
application to Space Shuttle Orbiter nose-gear tires	Station crew and equipment translation aid cart	LDEF: 69 Months in Space. First Post-Retneval
[NASA-TP-3073] p 30 N91-22576	[NASA-TP-3084] p 29 N91-21556	Symposium, part 2
SPACE SHUTTLE PAYLOADS	Radiation risk predictions for Space Station Freedom	[NASA-CP-3134-PT-2] p 52 N92-24806
The microgravity environment of the Space Shuttle	orbits	Second LDEF Post-Retneval Symposium abstracts
Columbia middeck during STS-32 [NASA-TP 3140] p 48 N92-11930	(NASA-TP-3098) p 51 N91-26107	[NASA-CP-10097] p 52 N92-27218
The microgravity environment of the Space Shuttle	Technology for the Future: In-Space Technology Experiments Program, part 1	SPACEBORNE TELESCOPES
Columbia payload bay during STS-32	[NASA-CP-10073-PT-1] p 14 N91-27177	Exobiology in Earth orbit: The results of science
[NASA-TP-3141] p 49 N92-11931	Technology for the Future: In-Space Technology	workshops held at NASA, Ames Research Center [NASA-SP-500] p.41 N91-14725
Graphite/epoxy composite adapters for the Space	Experiments Program, part 2	SPACECRAFT PAI NOTE 14725
	[NASA-CP-10073-PT-2] p 14 N91-27178	
Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251		Shortcomings in ground testing, environment
Shuttle/Centaur vehicle	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept	
Shuttle/Centaur vehicle {NASA-TP-3014} p.15 N92-31251	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00	Shortcomings in ground testing, environment simulations, and performance predictions for space
Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 SPACE SHUTTLES	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station	Shortcomings in ground testing, environment simulatic.is, and performance predictions for space applications {NASA-TP-3217 p.23 N92-22593 SPACECRAFT ANTENNAS
Shuttle/Centaur vehicle {NASA-TP-3014} p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes	Shortcomings in ground testing, environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes
Shuttle/Centaur vehicle {NASA-TP-3014} p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast
Shuttle/Centaur vehicle (NASA-TP-3014 p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer (NASA-TP-3176 p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook (NASA-TM-107793 p 15 N92-20676	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p.31 N92-33476
Shuttle/Centair vehicle {NASA-TP-3014} p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} p 15 N92-20676 The role of failure/problems in engineering: A	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209	Shortcomings in ground testing environment simulations, and performance predictions for space applications {NASA-TP-3217 p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273 p.31 N92-33476 SPACECRAFT CABINS
Shuttle/Centaur vehicle {NASA-TP-3014} p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} p 15 N92-20676 The role of failure/problems in engineering: A commentary of failures experienced - lessons learned	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} P 15 N92-31251	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317	Shortcomings in ground testing environment simulations, and performance predictions for space applications {NASA-TP-3217 p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273 p.31 N92-33476 SPACECRAFT CABINS
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Shuttle/Centaur vehicle {NASA-TP-3014} p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} p 15 N92-20676 The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} p 24 N92-22235 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} p 41 N92-22324 International Workshop on Vibration Isolation	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217}
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Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} P 41 N92-22324 International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} SPACE STATION FREEDOM	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-0 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for specific p. 14 N91-18180
Shuttle/Centaur vehicle {NASA-TP-3014} P 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fith Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p.31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p.46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttle 2 launch system architecture {NASA-TP-3059} p.14 N91-18180
Shuttle/Centaur vehicle {NASA-TP-3014} P 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned (NASA-TP-3213) Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10994} P 24 N92-28436 SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttle 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station
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Shuttle/Centair vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom {NASA-CP-3108} P 37 N91-18573 Radiation risk predictions for Space Station Freedom	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-33 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p.31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p.46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3067} p.14 N91-18180 Benefits from synergies and advanced technologies for an divanced-technology space station {NASA-TP-3067} p.14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom {NASA-CP-3108} Radiation risk predictions for Space Station Freedom orbits	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-33 Large space structures and systems in the space station eria: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-319] p 15 N91-29209 Large space structures and systems in the space station eria: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p 23 N92-22593 SPACECRAFT ANTENNAS influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3057} p 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p 16 N92-17098
Shuttle/Centaur vehicle {NASA-TP-3014} P 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TP-3176} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fith Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom {NASA-CP-3108} Radiation risk predictions for Space Station Freedom orbits {NASA-TP-3098} P 51 N91-26107	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CABING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3057} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3057} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL-1-PT-1] p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom orbits {NASA-CP-3108} P 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits {NASA-TP-3098} P 51 N91-26107 Resource ervelope concepts for mission planning	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium, Volume 1 Executive summary	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p.31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p.46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttler 2 launch system architecture {NASA-TP-3059} p.14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p.18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials.
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced lessons learned {NASA-TM-30793} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom NASA-CP-3108} Resource Station Freedom for Space Station Freedom orbits {NASA-TP-3098} P 51 N91-26107 Resource ervelope concepts for mission planning	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Symposium, Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3057} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL-1-PT-1] p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials.
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications (NASA-CP-10094] SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling (NASA-CP-3085] Microbiology on Space Station Freedom {NASA-CP-31081} P 48 N91-15930 Microbiology on Space Station Freedom orbits {NASA-CP-3098} Resource ervelope concepts for mission planning {NASA-TP-3139} P 15 N91-29209	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium, Volume 1 Executive summary [NASA-CP-31121] p 19 N91-25176 Space Transportation Propulsion Technology	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p.31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p.46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttler 2 launch system architecture {NASA-TP-3059} p.14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p.18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials.
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TP-3176} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned [NASA-TP-3213] Path Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Path N92-28436 Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Path N91-15930 Microbiology on Space Station Freedom {NASA-CP-3108} Path N91-15930 Resource ervelope concepts for mission planning {NASA-TP-3098} Path N91-28209 Numerical analysis and simulation of an assured crew	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium, Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium, Volume 2: Symposium proceedings	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space slation {NASA-TP-3057} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL-1-PT-1] p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials. revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications (NASA-CP-10094) SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3108] Microbiology on Space Station Freedom [NASA-CP-3108] P 48 N91-15930 Microbiology on Space Station Freedom [NASA-CP-3108] Resource envelope concepts for mission planning [NASA-TP-3319] Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] P 26 N92-10161 Automating a spacecraft electrical power system using	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium, Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium, Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p.23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p.31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p.46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttler 2 launch system architecture {NASA-TP-3067} p.14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p.14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL-1-PT-1] p.18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p.21 N91-14437 Fourth Annual Workshop on Space Operations
Shuttle/Centair vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TM-30793} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} Space STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom orbits {NASA-CP-3108} P 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits {NASA-TP-3139} Resource envelope concepts for mission planning {NASA-TP-3139} Numerical analysis and simulation of an assured crew return vehicle flow field {NASA-TP-3101} Automating a spacecraft electrical power system using expert systems	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-33 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3193] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium, Volume 1 Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium, Volume 2: Symposium proceedings [NASA-CP-3112/VOL-2] p 19 N91-25176 Space Transportation Propulsion Technology Symposium volume 2: Symposium proceedings [NASA-CP-3112/VOL-2] p 19 N91-25193 Space Transportation Propulsion Technology	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttler 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 {NASA-RP-1124-REV-2} p. 21 N91-14437 Fourth Annual Workshop on Space Operations A-plications and Research (SOAR 90) {NASA-CP-3103-VOL-2} p. 41 N91-20702 Space Transportation Materials and Structures
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of tailures experienced lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-1094} Pace Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom {NASA-CP-3108} Radiation risk predictions for Space Station Freedom orbits {NASA-TP-308} Resource envelope concepts for mission planning {NASA-TP-3139} Numerical analysis and simulation of an assured crew return vehicle flow field {NASA-TP-3101} P 26 N92-10161 Automating a spacecraft electrical power system using expert systems {NASA-TP-3161} P 20 N92-12052	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium Volume 3: Panel Session Summanes and	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NSA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL-1-PT-1] p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 {NASA-RP-124-REV-2} p. 21 N91-14437 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) {NASA-CP-3103-VOL-2} p. 41 N91-20702 Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary
Shuttle/Centaur vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications (NASA-CP-10094) SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3108} P 48 N91-15930 Microbiology on Space Station Freedom {NASA-CP-3108} P 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits {NASA-CP-3108} P 51 N91-26107 Resource envelope concepts for mission planning {NASA-TP-3139} Numerical analysis and simulation of an assured crew return vehicle flow field {NASA-TP-3131} P 26 N92-10161 Automating a spacecraft electrical power system using expert systems {NASA-TP-3161} P 20 N92-12052 Beyond the Baseline 1991. Proceedings of the Space	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium Volume 3: Panel Session Summanes and	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 {NASA-CP-3103-VOL-2} p. 21 N91-14437 Fourth Annual Workshop on Space Operations A-pilications and Research (SOAR 90) {NASA-CP-3103-VOL-2} Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary INASA-CP-3148-VOL-1
Shuttle/Centair vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} Space STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom orbits {NASA-CP-3108} P 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits {NASA-TP-3319} Numerical analysis and simulation of an assured crew return vehicle flow field {NASA-TP-3101} Automating a spacecraft electrical power system using expert systems {NASA-TP-3161} Beyond the Baseline 1991. Proceedings of the Space Station Evolution Symposium Volume 1 Space Station	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium. Volume 3: Panel Session Summanes and Presentations [NASA-CP-3112-VOL-2] p 19 N91-28235	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 3 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttler 2 launch system architecture {NASA-TP-3057} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 {NASA-CP-3103-VOL-2} p. 21 N91-14437 Fourth Annual Workshop on Space Operations A-plications and Research (SOAR 90) {NASA-CP-3103-VOL-2} p. 41 N91-20702 Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary INASA-CP-3148-VOL-11
Shuttle/Centaur vehicle (NASA-TP-3014) p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer (NASA-TP-3176) p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook (NASA-TM-107793) p 15 N92-20676 The role of failure/problems in engineering: A commentary of failures experienced lessons learned (NASA-TP-3213) p 24 N92-22235 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 (NASA-CP-3127-VOL-2) p 41 N92-22324 International Workshop on Vibration Isolation Technology for Microgravity Science Applications (NASA-CP-10094) p 24 N92-28436 SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling (NASA-CP-3085) p 48 N91-15930 Microbiology on Space Station Freedom (NASA-CP-3108) p 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3108) p 51 N91-26107 Resource envelope concepts for mission planning (NASA-TP-3139) p 15 N91-29209 Numerical analysis and simulation of an assured crew return vehicle flow field (NASA-TP-3101) p 26 N92-10161 Automating a spacecraft electrical power system using expert systems (NASA-TP-3161) Beyond the Baseline 1991. Proceedings of the Space Station Freedom, part 1	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium Volume 3: Panel Session Summanes and	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL.1-PT-1] p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p. 41 N91-20770 Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary INASA-CP-3148-VOL-11 p. 15 N92-22660 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle
Shuttle/Centair vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications (NASA-CP-10094) SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling (NASA-CP-3085) Microbiology on Space Station Freedom {NASA-CP-3098} Padadiation risk predictions for Space Station Freedom orbits {NASA-CP-3098} Pasource envelope concepts for mission planning {NASA-TP-3109} Numerical analysis and simulation of an assured crew return vehicle flow field {NASA-TP-3101} Pada N92-12052 Beyond the Baseline 1991. Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom part 1 {NASA-CP-10083-VOL-1-PT-1} Pada N92-17098	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-0 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium Volume 3: Panel Session Summanes and Presentations [NASA-CP-3112-VOL-3] n 19 N91-28235 Upper stages using liquid propulsion and metallized	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3057} Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 {NASA-RP-1124-REV-2} p. 21 N91-14437 Fourth Annual Workshop on Space Operations A-phications and Research (SOAR 90) {NASA-CP-3103-VOL-2} Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary INASA-CP-3148-VOL-1} Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p. 15 N92-31251
Shuttle/Centaur vehicle (NASA-TP-3014) p 15 N92-31251 SPACE SHUTTLES Reliability of a Shuttle reaction timer (NASA-TP-3176) p 40 N92-16562 Payload bay doors and radiator panels familiarization handbook (NASA-TM-107793) p 15 N92-20676 The role of failure/problems in engineering: A commentary of failures experienced lessons learned (NASA-TP-3213) p 24 N92-22235 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 (NASA-CP-3127-VOL-2) p 41 N92-22324 International Workshop on Vibration Isolation Technology for Microgravity Science Applications (NASA-CP-10094) p 24 N92-28436 SPACE STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling (NASA-CP-3085) p 48 N91-15930 Microbiology on Space Station Freedom (NASA-CP-3108) p 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits (NASA-TP-3108) p 51 N91-26107 Resource envelope concepts for mission planning (NASA-TP-3139) p 15 N91-29209 Numerical analysis and simulation of an assured crew return vehicle flow field (NASA-TP-3101) p 26 N92-10161 Automating a spacecraft electrical power system using expert systems (NASA-TP-3161) Beyond the Baseline 1991. Proceedings of the Space Station Freedom, part 1	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28235 Upper stages using liquid propulsion and metallized propellants	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttlin 2 launch system architecture {NASA-TP-3059} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium Volume 1 Space Station Freedom, part 1 [NASA-CP-10083-VOL.1-PT-1] p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 [NASA-RP-1124-REV-2] p. 21 N91-14437 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p. 41 N91-20770 Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary INASA-CP-3148-VOL-11 p. 15 N92-22660 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle
Shuttle/Centair vehicle {NASA-TP-3014} SPACE SHUTTLES Reliability of a Shuttle reaction timer {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TP-3176} Payload bay doors and radiator panels familiarization handbook {NASA-TM-107793} The role of failure/problems in engineering: A commentary of failures experienced - lessons learned {NASA-TP-3213} Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 {NASA-CP-3127-VOL-2} International Workshop on Vibration Isolation Technology for Microgravity Science Applications {NASA-CP-10094} Space STATION FREEDOM Space Station Freedom Toxic and Reactive Materials Handling {NASA-CP-3085} Microbiology on Space Station Freedom orbits {NASA-CP-3086} P 37 N91-18573 Radiation risk predictions for Space Station Freedom orbits {NASA-TP-3139} Numerical analysis and simulation of an assured crew return vehicle flow field {NASA-TP-3101} Automating a spacecraft electrical power system using expert systems {NASA-TP-3161} Beyond the Baseline 1991. Proceedings of the Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} Beyond the Baseline 1991. Proceedings of the Space	[NASA-CP-10073-PT-2] p 14 N91-27178 Launch vehicle integration options for a large Earth sciences geostationary platform concept [NASA-TP-3083] p 15 N91-271-00 Large space structures and systems in the space station era: A bibliography with indexes [NASA-SP-7085(02)] p 18 N91-28191 Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 Large space structures and systems in the space station era: A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2 [NASA-CP-3127-VOL-2] p 41 N92-22324 SPACE SUITS A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 SPACE TRANSPORTATION Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 Space Transportation Propulsion Technology Symposium. Volume 1: Executive summary [NASA-CP-3112] p 19 N91-25176 Space Transportation Propulsion Technology Symposium. Volume 2: Symposium proceedings [NASA-CP-3112-VOL-2] p 19 N91-28193 Space Transportation Propulsion Technology Symposium. Volume 3: Panel Session Summanes and Presentations [NASA-CP-3112-VOL-2] p 19 N91-28235 Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151	Shortcomings in ground testing environment simulatic.is, and performance predictions for space applications {NASA-TP-3217} p. 23 N92-22593 SPACECRAFT ANTENNAS Influence of mass moment of inertia on normal modes of preloaded solar array mast {NASA-TP-3273} p. 31 N92-33476 SPACECRAFT CABINS Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 SPACECRAFT CHARGING Current Collection from Space Plasmas {NASA-CP-3089} p. 46 N91-17713 SPACECRAFT CONFIGURATIONS Parametric trade studies on a Shuttler 2 launch system architecture {NASA-TP-3067} p. 14 N91-18180 Benefits from synergies and advanced technologies for an advanced-technology space station {NASA-TP-3067} p. 14 N91-20177 Beyond the Baseline 1991 Proceedings of the Space Station Evolution Symposium. Volume 1 Space Station Freedom, part 1 {NASA-CP-10083-VOL-1-PT-1} p. 18 N92-17098 SPACECRAFT CONSTRUCTION MATERIALS Outgassing data for selecting spacecraft materials revision 2 {NASA-RP-1124-REV-2} p. 21 N91-14437 Fourth Annual Workshop on Space Operations A-plications and Research (SOAR 90) {NASA-CP-3103-VOL-2} p. 41 N91-20702 Space Transportation Materials and Structures Technology Workshop Volume 1 Executive summary INASA-CP-3148-VOL-11 p. 15 N92-32560 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle {NASA-TP-3014} p. 15 N92-31251 SPACECRAFT CONTAMINATION

SPACECRAFT CONTROL	The 1990 NASA Aerospace Battery Workshop	STAP FORMATION
The 5th Annual NASA Spacecraft Control Laboratory	[NASA-CP-3119] p 20 N92-27130	The Interstellar Medium in External Galaxies. Summaries
Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186	SPACECRAFT PROPULSION	of contributed papers
[NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory	Engines and innovation. Lewis Laboratory and American propulsion technology	[NASA-CP-3084] p 49 N91-14100 Interstellar Dust Contributed Papers
Experiment (SCOLE) Workshop, part 2	(NASA-SP-4306) p 51 N91-15975	[::ASA-CP-3036] p.48 N91-14897
(NASA-CP-10057-PT-2) p 17 N91-19122	Vision-21 Space Travel for the Next Millennium	Paired and Interacting Galaxies International
Rigid-body-control subsystem sizing for an Earth science	[NASA-CP-10059] p 13 N91-22139	Astronomical Union Colloquium No. 124
geostationary platform [NASA-TP-3087] p 17 N91-22302	Space Transportation Propulsion Technology	[NASA-CP-3098] p 49 N91-16858 STARBURST GALAXIES
Fourth NASA Workshop on Computational Control of	Symposium Volume 3: Panel Session Summaries and	Paired and Interacting Galaxies International
Flexible Aerospace Systems, part 1	Presentations [NASA-CP-3112-VOL-3] p 19 N91-28235	Astronomical Union Colloquium No. 124
[NASA-CP-10065-PT-1] p 17 N91-22307	Upper stages using liquid propulsion and metallized	[NASA-CP-3098] p 49 N91-16858
Multidisciplinary optimization of controlled space	propellants	STATE ESTIMATION
structures with global sensitivity equations [NASA-TP-3130] p.18 N92-11087	[NASA-TP-3191] p 20 N92-17151	State estimation applications in aircraft flight-data analysis. A user's manual for SMACK.
Fifth Annual Workshop on Space Operations	Tenth Workshop for Computational Fluid Dynamic	[NASA-RP-1252] p 10 N91-19082
Applications and Research (SOAR 1991), volume 2	Applications in Rocket Propulsion, part 2	STATIC ELECTRICITY
[NASA-CP-3127-VOL-2] p 41 N92-22324	(NASA-CP-3163-PT-2) p 27 N92-32245	The 1991 International Aerospace and Ground
Ongoing Progress in Spacecraft Controls	Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1	Conference on Lightning and Static Electricity, volume 1
[NASA-CP-10099] p 19 N92-28730 SPACECRAFT DESIGN	[NASA-CP-3163-PT-1] p 27 N92-32278	[NASA-CP-3106-VOL-1] p 35 N91-32599 The 1991 International Aerospace and Ground
NASA Computational Fluid Dynamics Conference.	SPACECRAFT SHIELDING	Conference on Lightning and Static Electricity, volume 2
Volume 2: Sessions 7-12	HZETRN: A heavy ion/nucleon transport code for space	[NASA-CP-3106-VOL-2] p 36 N91-32693
{NASA-CP-10038-VOL-2] p 4 N91-10868	radiations	STATIC TESTS
Parametric trade studies on a Shuttle 2 launch system	[NASA-TP-3146] p 51 N92-15959	Static thrust vectoring performance of nonaxisymmetric
architecture [NASA-TP-3059] p.14 N91-18180	Orbital debris. Technical issues and future directions	convergent-divergent nozzles with post exit yaw vanes. [NASA-TP-3085] p.5 N91-21059
Guidance, navigation, and control subsystem equipment	[NASA-CP-10077] p 49 N92-33478	[NASA-TP-3085] p.5 N91-21059 Wind-tunnel static and free-flight investigation of
selection algorithm using expert system methods	SPACECRAFT STRUCTURES Multidisciplinary optimization of controlled space	high-angle-of-e-tack stability and control characteristics of
[NASA-TP-3082] p 42 N91-25624	structures with global sensitivity equations	a model of the EA-6B airplane
Packaging, development, and on-orbit assembly options	[NASA-TP-3130] p 18 N92-11087	(NASA-TP-3194) p 7 N92-25276
for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182	Space Transportation Materials and Structures	STATIC THRUST
[NASA-TP-3088] p.17 N91-27182 Multidisciplinary optimization of controlled space	Technology Workshop Volume 1. Executive summary	Static thrust-vectoring performance of nonexisymmetric convergent-divergent nozzles with post-exit yaw vanes
structures with global sensitivity equations	[NASA-CP-3148-VOL-1] p 15 N92-22660	[NASA-TP-3085] p.5 N91-21059
[NASA-TP-3130] p 18 N92-11087	Stiffness and strength tailoring in uniform space-filling	STATISTICAL CORRELATION
Beyond the Baseline 1991. Proceedings of the Space	truss structures (NASA-TP-3210) p 30 N92-24546	Responses of women to orthostatic and exercise
Station Evolution Symposium, Volume 1: Space Station	Computational Structures Technology for Airframes and	stresses
Freedom, part 1 [NASA-CP-10083-VOL-1-PT-1] p.18 N92-17098	Propulsion Systems	[NASA-TP-3043] p. 37 N91-19711 Correlation and prediction of dynamic human isolated
Beyond the Baseline 1991: Proceedings of the Space	(NASA-CP-3142) p 31 N92-25911	joint strength from lean body mass
Station Evolution S mposium Volume 2 Space Station	Graphite/epoxy composite adapters for the Space	NASA-TP-32 71 p 40 N92-26682
Freedom, part 1	Shuttle/Centaur vehicle	STATOR BLADES
(NASA-CP-10083-VOL-2-PT-1) p 18 N92-17768	[NASA-TP-3014] p 15 N92-31251	Design and performance of controlled-diffusion stator
Computational Structures Technology for Airframes and	Influence of mass moment of inertia on normal modes	compared with original double-circular-arc stator
Propulsion Systems [NASA-CP-3142] p 31 N92-25911	of preloaded solar array mast [NASA-TP-3273] p 31 N92-33476	[NASA-TP-2852] p 12 N92-22863 STATORS
Graphite/epoxy composite adapters for the Space	SPACECRAFT TRAJECTORIES	Design and performance of controlled-diffusion stator
Shuttle Centaur vehicle	Flight Mechanics/Estimation Theory Symposium, 1990	compared with original double-circular-arc stator
[NASA-TP-3014] p 15 N92-31251	[NASA-CP-3102] p 14 N91-17073	[NASA-TP-2852] p 12 N92-22863
SPACECRAFT ENVIRONMENTS	SPACECREWS	STEADY STATE
Measurement and Characterization of the Acceleration Environment on Board the Space Station	Microbiology on Space Station Freedom	The effect of acceleration versus displacement methods
[NASA-CP-3088] p 48 N91-12401	[NASA-CP-3108] p 37 N91-18573 SPACELAB	on steady-state boundary forces [NASA-TP-3218] p 30 N92-21457
SPACECRAFT EQUIPMENT	Measurement and Characterization of the Acceleration	STEREOSCOPIC VISION
Small Explorer Data System MIL-STD-1773 fiber optic	Environment on Board the Space Station	Effect of short-term exposure to stereoscopic
bus	[NASA-CP-3088] p 48 N91-12401	three-dimensional flight displays on real-world depth
[NASA-TP-3227] p 16 N92-26667 SPACECRAFT INSTRUMENTS	SPACELAB PAYLOADS	perception [NASA-TP-3117] p.11 N92-13065
Guidance, navigation, and control subsystem equipment	Measurement and Charact rization of the Acceleration Environment on Board the Space Station	STIFFENING
selection algorithm using expert system methods	[NASA-CP-3088] p 48 N91-12401	Experimental behavior of graphite-epoxy Y-stiffened
[NASA-TP-3082] p 42 N91-25624	SPATIAL MARCHING	specimens loaded in compression
Mission description and in-flight opera of ERBE	An upwind-biased space marching algorithm for	[NASA-TP-3171] p 30 N92-23115
instruments on ERBS, NOAA 9, and NOAA 10	supersonic viscous flow	STIFFNESS
spacecraft [NASA-RP-1279] p 32 N92-32127	[NASA-TP-3068] p. 26 N91-18361 An efficient HZETRN (a galactic cosmic ray transport	Stiffness and strength failuring in uniform space-filling truss structures
SPACECRAFT LAUNCHING	code)	[NASA-TP-3210] p 30 N92-24546
Launch vehicle integration options for a large Earth	[NASA-TP-3147] p 51 N92-22218	buckling behavior of long symmetrically laminated plates
sciences geostationary platform concept	SPECTRA	subjected to combined loadings
[NASA-TP-3083] p 15 N91-27180	Wind turbine acoustics	[NASA-TP-3195] p 22 N92-25160 STOCHASTIC PROCESSES
SPACECRAFT MOTION A scheme for bandpass filtering magnetometer	[NASA-TP-3057] p 44 N91-16679 SPECTROSCOPY	Structural factoring approach for analyzing stochastic
measurements to reconstruct tethered satellite skiprope	Investigation of microstructural changes in	networks
motion	polyetherether-ketone films at cryogenic temperatures by	[NASA-TP-3069] p 43 N91-18753
[NASA-TP-3123] p 42 N91-25629	positron lifetime spectroscopy	STRAIN MEASUREMENT
SPACECHAFT ORBITS	[NASA-TP-3064] p 21 N91-18216	Thermal and structural tests of Rene 41 honeycomb
Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p.14 N91-17073	Low-energy positron flux generator for microstructural	integral-tank concept for future space transportation systems
SPACECRAFT POWER SUPPLIES	characterization of thin films [NASA-TP-3074] p 27 N91-22538	[NASA-TP-3145] p.30 N92-24205
Space Photovoltaic Research and Technology, 1989	SPEECH RECOGNITION	STRATOCUMULUS CLOUDS
(NASA-CP-3107) p.19 N91-19182	Proceedings of the Second Joint Technology Workshop	FIRE Science Results 1988
Space Transportation Propulsion Technology	on Neural Networks and Fuzzy Logic, volume 2	[NASA-CP-3083] p.34 N91-10448
Symposium Volume 2 Symposium proceedings	[NASA-CP-10061-VOL-2] p 43 N91-20811	STRATOSPHERE The atmosphere officers of stratosphere overely a
[NASA-CP-3112-VOL-2] p.19 N91-28193 Space Photovoltaic Research and Technology	SQUEEZED STATES (QUANTUM THEORY)	The atmospheric effects of stratospheric aircraft. A topical review.
Conference	Workshop on Squeezed States and Uncertainty Relations	[NASA-RP-1250] 1 33 N91-16466
[NASA-CP-3121] p 19 N91-30203	(NASA-CP-3135) p 46 N92-22045	The atmospheric effects of strato pheric aircraft. A
Automating a spacecraft electrical power system using	STAGNATION POINT	current consensus
expert systems	Stagnation-point heat-transfer rate predictions at	(NASA-RP-1251) p.33 N91-16467
[NASA-TP-3161] p. 20 N92-12052 Large space structures and systems in the space station	aeroassist flight conditions	SAM 2 measurements of the polar stratospheric variosol. Volume 9: October 1982 - April 1983
era. A bibliography with indexes (supplement 03)	[NASA-TP-3208] p 27 N92-31281 STANDARD DEVIATION	[NASA-RP-1244] p 33 N9 : 18505
(NASA-SP-7085(03)) p 18 N92-22317	Structural deterministic safety factors selection criteria	International Workship on Stratospheric Aerosols
The 1991 NASA Aerospace Batte: Workshop	and verification	Measurements, Properties, and Effects
(NASA-CP-3140) p.33 N92-20740	[NASA TP-3203] p.30 N92-19355	(NASA-CP-3114) p.32 N91-32528

The atmospheric effects of stratospheric aircraft: A first	Eighth DOD/NASA/FAA Conference on Fibrous
program report [NASA-RP-1272] p.33 N92-19121	Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574
Sixteenth International Laser Radar Conference, part	STRUCTURAL DESIGN CRITERIA
1	Stiffness and strength tailoring in uniform space-filling
[NASA-CP-3158-PT-1] p 28 N92-29228	truss structures
SAGE 1 data user's guine	[NASA-TP-3210] p 30 N92-24546 STRUCTURAL ENGINEERING
[NASA-RP-1275] p 34 N92-33097	Space Transportation Materials and Structures
TRESS ANALYSIS	Technology Workshop, Volume 1 Executive summary
Plate and butt-weld stresses beyond elastic limit, material and structural modeling.	(NASA-CP-3148-VOL-1) p 15 N92-22660
[NASA-TP-3075] p 29 N91-16413	STRUCTURAL FAILURE
Development of an integrated aeroservoelastic analysis	A three-dimensional finite-element thermal/mechanica
program and correlation with test data	analytical technique for high-performance traveling wave tubes
[NASA-TP-3120] p.2 N91-26113	[NASA-TP-3081] p 25 N91-27436
Structural deterministic safety factors selection criteria	Structural deterministic safety factors selection criteria
and verification	and verification
[NASA-TP-3203] p 30 N92-19355	(NASA-TP-3203) p 30 N92-19355
Thermal and structural tests of Rene 41 honeycomb integral-tank concept for future space transportation	STRUCTURAL RELIABILITY
systems	Structural deterministic safety factors selection criteria
[NASA-TP-3145] p 30 N92-24205	and venfication [NASA-TP-3203] p 30 N92-19355
Effect of type of load on stress analysis of thin-walled	STRUCTURAL STABILITY
ducts	Buckling and vibration analysis of a simply supported
[NASA-TP-3248] p 31 N92-26669	column with a piecewise constant cross section
TRESS CONCENTRATION Stress concentrations for straight-shank and	(NASA-TP-3090) p 29 N91-20503
countersunk holes in plates subjected to tension, bending,	STRUCTURAL VIBRATION
and pin loading	Free vibrations of thin-walled semicircular graphite-epoxy composite frames
[NASA-TP-3192] p 31 N92-25997	[NASA-TP-3010] p 29 N91-13750
TRESS INTENSITY FACTORS	Buckling and vibration analysis of a simply supported
Analysis and prediction of Multiple-Site Damage (MSD) fatigue crack growth	column with a piecewise constant cross section
[NASA-TP-3231] p 31 N92-31279	[NASA-TP-3090] p 29 N91-20503
Applications of FEM and BEM in two-dimensional	Rotordynamic Instability Problems in High-Performance
fracture mechanics problems	Turbomachinery, 1990 [NASA-CP-3122] p.28 N92-14346
[NASA-TP-3277] p 31 N92-31280 TRESS-STRAIN RELATIONSHIPS	{NASA-CP-3122} p 28 N92-14346 SUBDIVISIONS
Plate and butt-weld stresses beyond elastic limit,	Earth observations and global change decision making
material and structural modeling	A special bibliography, 1991
[NASA-TP-3075] p 29 N91-16413	[NASA-SP-7092] p 32 N91-30588
improved accuracy for finite element structural analysis	SUBSONIC FLOW
via a new integrated force method	J-85 jet engine noise measured in the ONERA S1 wind
[NASA-TP-3204] p 30 N92-22227 TRUCTURAL ANALYSIS	tunnel and extrapolated to far field [NASA-TP-3053] p 45 N91-19823
Free vibrations of thin-walled semicircular	Numerical study of the aerodynamic effects of using
graphite-epoxy composite frames	sulfur hexafluonde as a test gas in wind tunnels
[NASA-TP-3010] p 29 N91-13750	[NASA-TP-3086] p.5 N91-22070
Plate and butt-weld stresses beyond elastic limit, material and structural modeling.	Effects of yaw angle and Reynolds number on
[NASA-TP-3075] p 29 N91-16413	rectangular-box cavities at subsonic and transonic
Nineteentii NASTRAN (R) Users' Colloquium	speeds [NASA-TP-3099] p.5 N91-27124
[NASA-CP-3111] p 29 N91-20506	SUBSONIC SPEED
improved accuracy for finite element structural analysis	Panel methods An introduction
via a new integrated force method [NASA-TP-3204] p.30 N92-22227	[NASA-TP-2995] p.5 N91-19058
Twentieth NASTRAN (R) Users' Colloquium	Longitudinal aerodynamic characteristics of a subsonic
[NASA-CP-3145] p 30 N92-24324	energy-efficient transport configuration in the National
Buckling behavior of long symmetrically laminated plates	•
	Transonic Facility [NASA.TP.2022] D. 6. N91-28143
subjected to combined loadings	[NASA-TP-2922] p.6 N91-28143
[NASA-TP-3195] p 22 N92-25160	(NASA-TP-2922) p.6 N91-28143 SULFUR FLUORIDES
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using
[NASA-TP-3195] p 22 N92-25160	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the serodynamic effects of using suffur hexafluonde as a test gas in wind tunnels
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991 Standard	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexaliuoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN
NASA-TP-3195 p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems NASA-CP-3142 p 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexaftworde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numenical study of the aerodynamic effects of using sulfur hexafliconde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991: Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexaftworde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference
NASA-TP.3195 p. 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems NASA-CP-3142 p. 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology NASA-CP-3151 p. 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p. 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6.
NASA-TP-3195 p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems NASA-CP-3142 p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology NASA-CP-3151 p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle NASA-TP-3014 p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 NASA-CP-3087-PT-2 p 22 N92-32574	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the serodynamic effects of using suffur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839
NASA-TP-3195 p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems NASA-CP-3142 p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology NASA-CP-3151 p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle NASA-TP-3014 p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 NASA-CP-3087-PT-2 p 22 N92-32574	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Conference
[NASA-TP.3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttler/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN Ororbit structural dynamic performance of a 15-meter microwave radiometer antenna	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6. [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12.
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991: Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttler/Centiaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 FRUCTURAL DESIGN Ori-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6. [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12.
NASA-TP-3195 p 22 N92-25160	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN Or-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6. [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12. [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension Technology, part 1.
NASA-TP-3195 p. 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems NASA-CP-3142 p. 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology NASA-CP-3151 p. 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle NASA-TP-3014 p. 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 (NASA-CP-3087-PT-2) p. 22 N92-32574 TRUCTURAL DESIGN Ori-orbit structural dynamic performance of a 15-meter microwave radiometer antenna NASA-TP-3041 p. 16 N91-17114 Aeropropulsion 1991	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the serodynamic effects of using suffur hexafluonde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721
NASA-TP-3195 p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems NASA-CP-3142 p 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151 p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014 p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN Dr-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041 p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063 Optimization of composite sandwich cover panels subjected to compressive loadings NASA-TP-3173 p 21 N92-20679 NASA-CP-10067 NASA-CP-10067 Design NASA-CP-10067 Design	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the serodynamic effects of using sulfur hexalfluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7, May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10868 NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension
NASA-TP-3195 p 22 N92-25160	[NASA-TP-2922] p 6 N91-28143 SULFUR FILLORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6. [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12. [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS International Symposium on Magnetic Suspension Technology, part 1. [NASA-CP-3152-PT-1] p 18 N92-27721. International Symposium on Magnetic Suspension Technology, part 2.
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-2086 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03)	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluonde as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6. [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference. Volume 2: Sessions 7-12. [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS International Symposium on Magnetic Suspension Technology, part 1. [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2. [NASA-CP-3152-PT-2] p 18 N92-27788
[NASA-TP.3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP.3142] p 31 N92-25911 National Educators' Workshop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttler/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-P-7085(03)] p 18 N92-22317	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using suffur hexafluonde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788
NASA-TP-3195 p 22 N92-25160	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7: May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991. Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN Ori-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 16 N91-17114 Aeropropulsion of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Stiffness and strength tailoring in uniform space-filling truss structures [NASA-TP-3210] p 30 N92-24546	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using suffur hexafluonde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-2] p 18 N92-27788 SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-3162-PT-2] p 18 N92-27788
NASA-TP-3195 p 22 N92-25160	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7, May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS international Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10086-PT-1] p 17 N91-21188 Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10086-PT-1] p 17 N91-21188
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991: Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN Ori-orbit structural dynamic performance of a 15-meter microwave radiometer antenns [NASA-TP-3041] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Stiffness and strength tailoring in uniform space-filling truss structures [NASA-TP-3210] p 30 N92-24546 Computational Structures Technology for Airframes and Propulsion Systems	[NASA-TP-2922] p 6 N91-28143 SULFUR FILLORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability. [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980. [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6. [NASA-CP-10038-VOL-1] p 4 N91-10839. NASA-CP-10038-VOL-1] p 4 N91-10839. NASA-CP-10038-VOL-2] p 4 N91-10868. SUPERCONDUCTIVING MAGNETS. International Symposium on Magnetic Suspension Technology, part 1. [NASA-CP-3152-PT-1] p 18 N92-27721. International Symposium on Magnetic Suspension Technology, part 2. [NASA-CP-3152-PT-2] p 18 N92-27788. SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 17 N91-21188. Aerospace Applications of Magnetic Suspension Technology, part 2. [NASA-CP-10066-PT-1] p 18 N92-27788. [NASA-CP-10066-PT-1] p 18 N92-27788. [NASA-CP-10066-PT-1] p 17 N91-21188. [NASA-CP-10066-PT-1] p
NASA-TP-3195 p 22 N92-25160	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluonde as a test gas in wind tunnels [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Attas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTING MAGNETS International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10086-PT-1] p 17 N91-21188 Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CP-10086-PT-1] p 17 N91-21188 Aerospace Applications of Magnetic Suspension Technology, part 2 [NASA-CP-10086-PT-2] p 17 N91-2103
[NASA-TP-3195] p 22 N92-25160 Computational Structures Technology for Airframes and Propulsion Systems [NASA-CP-3142] p 31 N92-25911 National Educators' Workshop Update 1991: Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 Graphile/epoxy composite adapters for the Space Shuttle/Centaur vehicle [NASA-TP-3014] p 15 N92-31251 Eighth DOD/NASA/FAA Conference on Fibrous Composites in Structural Design, part 2 [NASA-CP-3087-PT-2] p 22 N92-32574 TRUCTURAL DESIGN Ori-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 16 N91-17114 Aeropropulsion 1991 [NASA-CP-10063] p 12 N91-20086 Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 Large space structures and systems in the space station era. A bibliography with indexes (supplement 03) [NASA-SP-7085(03)] p 18 N92-22317 Stiffness and strength tailoring in uniform space-filling truss structures [NASA-TP-3210] p 30 N92-24546 Computational Structures Technology for Airframes and Propulsion Systems	[NASA-TP-2922] p 6 N91-28143 SULFUR FLUORIDES Numerical study of the aerodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels. [NASA-TP-3086] p 5 N91-22070 SUN Climate Impact of Solar Vanability [NASA-CP-3086] p 50 N91-12456 Atlas of the Earth's radiation budget as measured by Nimbus-7. May 1979 to May 1980 [NASA-RP-1283] p 35 N91-24720 SUPERCOMPUTERS NASA Computational Fluid Dynamics Conference Volume 1: Sessions 1-6 [NASA-CP-10038-VOL-1] p 4 N91-10839 NASA Computational Fluid Dynamics Conference Volume 2: Sessions 7-12 [NASA-CP-10038-VOL-2] p 4 N91-10868 SUPERCONDUCTIVING MAGNETS International Symposium on Magnetic Suspension Technology, part 1 [NASA-CP-3152-PT-1] p 18 N92-27721 International Symposium on Magnetic Suspension Technology, part 2 [NASA-CP-3152-PT-2] p 18 N92-27788 SUPERCONDUCTIVITY Aerospace Applications of Magnetic Suspension Technology, part 1 [NASA-CP-10066-PT-1] p 17 N91-21188 Aerospace Applications of Magnetic Suspension Technology, part 2

SUPERCRITICAL WINGS Longitudinal agrorivnamic characteristics of a subsocioenergy-efficient transport configuration in the National Transonic Facility [NASA-TP-2922] D 6 N91-28143 installation effects of wing-mounted turbolan nacelle-pylons on a 1/17-scale, twn-engine, low-wing transport model INASA-TP-31681 p 7 N92-19002 SUPERSONIC AIRCRAFT The atmospheric effects of stratospheric aircraft. A current consensus p 33 N91-16467 A method for designing blended wing-body configurations for low wave drag [RASA-TP-3261] p.8 N92-32480 Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design p 9 N92-33656 INASA.TP.32021 SUPERSONIC COMBUSTION RAMJET ENGINES A parametric experimental investigation of a scramjet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p.4 N91-16990 SUPERSONIC DRAG Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for wing design [NASA-TP-3202] SUPERSONIC FLOW Navier-Stokes and Euler solutions for lee-side flows over supersonic delta wings. A correlation with experiment [NASA-TP-3035] p.4 N91-13401 An upwind-biased space marching algorithm for supersonic viscous flow [NASA-TP-3068] Evaluation of a technique to generate artificially thickened boundary layers in supersonic and hypersonic (NASA-TP-31421 p 6 N91-28136 The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center INASA-TP-30381 SUPERSONIC SPEED Experimental investigation of porous-floor effects on cavity flow helds at supersonic speeds INASA-TP-30321 p 5 N91-19042 Panel methods. An introduction. [NASA-TP-2995] Measurements of forces, moments, and pressures on a generic store separating from a box cavity at supersonic [NASA-TP-3110] p 6 N92-10005 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic enaarte [NASA-TP-3105] p 7 N92-20038 Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center [NASA-TP-3038] p 13 N92-31640 SUPERSONIC TEST APPARATUS Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center NASA-TP-30381 p 13 N92-31640 SUPERSONIC TRANSPORTS The atmospheric effects of stratospheric aircraft. A INASA-RP-12501 p 33 N91-16466 Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations [NASA-TP-3077] p.11 f p 11 N91-21127 A loudness calculation procedure applied to shaped sonic booms INASA-TP-31341 p 45 N92-11765 Computational Structures Technology for Airframes and Propulsion Systems (NASA-CP-3142) p 31 N92-25911 SUPERSONIC TURBINES Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center [NASA-TP-3038] p 13 N92-31640 SUPERSONIC WIND TUNNELS Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center INASA-TP-30381 p 13 N92-31640 SURFACE GEOMETRY A method for determining spiral-bevel gear tooth geometry for finite element analysis INASA TP-30961 p 28 N92-10195 SURFACE PROPERTIES Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143]

p 42 N92-24397

SURFACE REACTIONS	SYSTEMS STABILITY	TENSILE TESTS
AMSAHTS 1990: Advances in Materials Science and Applications of High Temperature Superconductors	A methodology for computing uncertainty bounds of multivariable systems based on sector stability theory	Stress concentrations for straight-shank and countersunk holes in plates subjected to tension, bending.
[NASA-CP-3100] p 22 N92-21605	concepts	and pin loading
Gibbs free energy of reactions involving SiC, Si3N4, H2,	[NASA-TP-3166] p 13 N92-21410	[NASA-TP-3192] p.31 N92-25997
and H2O as a function of temperature and pressure [NASA-TP-3275] p 23 N92-31278		TERMINOLOGY NASA Thesaurus supplement. A four part cumulative.
SURFACE WAVES	T	supplement to the 1988 edition of the NASA Thesaurus
Diffracted and head waves associated with waves on nonseparable surfaces		(supplement 4) {NASA-SP-7064-SUPPL-4} p. 47 N91-10804
[NASA-TP-3169] p 7 N92-20545	TABLES (DATA)	NASA Thesaurus supplement. A four part cumulative
SURFACES	SAGE 1 data user's guide (NASA-RP-1275) p 34 N92-33097	supplement to the 1988 edition of the NASA Thesaurus
Workshop on Grid Generation and Related Areas [NASA-CP-10089] p 12 N92-25712	TAKEOFF	(supplement 5) (NASA-SP-7064-SUPPL-5) p. 47 N91 19962
SURVEYS	Annoyance caused by aircraft en route noise	TEST FACILITIES
Survey and analysis of research on supersonic	[NASA-TP-3165] p 45 N92-20479	Aviation Safety/Automation Program Conference
drag-due-to-lift minimization with recommendations for wing design	TAPERING Buckling and vibration analysis of a simply supported	[NASA-CP-3090] p.9 N91-10936 TEST STANDS
[NASA-TP-3202] p 9 N92-33656	column with a piecewise constant cross section	Development of a full-scale transmission testing
SURVIVAL	[NASA-TP-3090] p 29 N91-20503	procedure to evaluate advanced lubricants [NASA-TP-3265] p.28 N92-30396
Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154	TECHNOLOGIES National Educators' Workshop: Update 1988 Standard	TESTS
SWEPT WINGS	Experiments in Engineering Materials Science and	NASA Wallops Flight Facility Air-Sea Interaction
Detailed flow-field measurements over a 75 deg swept	Technology	Research Facility (NASA-RP-1277) p 36 N92-25981
delta wing {NASA-TP-2997} p.4 N91-18030	[NASA-CP-3060] p 20 N91-20207 TECHNOLOGY ASSESSMENT	THERMAL ANALYSIS
Planform curvature effects on flutter characteristics of	NASA-LaRc Flight-Critical Digital Systems Technology	Thermal-distortion analysis of a spacecraft box truss in
a wing with 56 deg leading-edge sweep and panel aspect	Workshop	geostationary orbit [NASA-TP-3054] p.16 N91-11041
ratio of 1.14 [NASA-TP-3116] p 11 N92-13054	[NASA-CP-10028] p 11 N91-24200 Advanced Hypervelocity Aerophysics Facility	A three-dimensional finite-element thermal/mechanical
The natural flow wing-design concept	Workshop	analytical technique for high-performance traveling wave
[NASA-TP-3193] p 7 N92-25202	[NASA-CP-10031] p 13 N91-24211	tubes [NASA-TP-3081] p.25 N91-27436
SWITCHES	The 1990 NASA Aerospace Battery Workshop	Thermal and structural tests of Rene 41 honeycomb
Reliability of a Shuttle reaction timer [NASA-TP-3176] p 40 N92-16562	[NASA-CP-3119] p 20 N92-27130 TECHNOLOGY TRANSFER	integral-tank concept for future space transportation systems
SWITCHING	Technology 2000, volume 2	[NASA-TP-3145] p 30 N92-24205
Space Communications Technology Conference:	[NASA-CP-3109-VOL-2] p 52 N91-24041	A simplified method for thermal analysis of a cowl leading
Onboard Processing and Switching [NASA-CP-3132] p 25 N92-14202	Technology 2001: The Second National Technology Transfer Conference and Exposition, volume 1	edge subject to intense local shock-wave-interference heating
SYNCHRONISM	[NASA-CP-3136-VOL 1] p 52 N92-22423	(NASA-TP-3167) p.27 N92-24797
Experimental validation of clock synchronization	Technology 2001: The Second National Technology	THERMAL CONDUCTIVITY
algorithms [NASA-TP-3209] p 42 N92-27589	Transfer Conference and Exposition, volume 2 [NASA-CP-3136-VOL-2] p 52 N92-22676	Calculations and curve fits of thermodynamic and transport properties for equilibrium air to 30000 K.
SYNCHRONOUS PLATFORMS	TECHNOLOGY UTILIZATION	(NASA-RP-1260) p 26 N92-11285
Thermal-distortion analysis of a spacecraft box truss in	Aerospace Applications of Magnetic Suspension	THERMAL CONTROL COATINGS LDEF: 69 Months in Space First Post-Retrieval
geostationary orbit (NASA-TP-3054) p 16 N91-11041	Technology, part 1 (NASA-CP-10066-PT-1] p 17 N91-21188	Symposium, part 3
On-orbit structural dynamic performance of a 15-meter	Technology 2000, volume 1	[NASA-CP-3134-PT-3] p 52 N92-27083
microwave radiometer antenna	[NASA-CP-3109-VOL-1] p 52 N91-23021	THERMAL EMISSION Optical measurements on solid specimens of solid rocket
[NASA-TP-3041] p 16 N91-17114	Technology 2000, volume 2	motor exhaust and solid rocket motor slag
Rigid-body-control subsystem sizing for an Earth science geostationary platform	(NASA-CP-3109-VOL-2) p 52 N91-24041 TELECOMMUNICATION	[NASA-TP-3177] p 20 N92-20949
[NASA-TP-3087] p 17 N91-22302	The 22nd Annual Precise Time and Time Interval (PTTI)	THERMAL PROTECTION Numerical studies of convective cooling for a locally
Launch vehicle integration options for a large Earth	Applications and Planning Meeting [NASA-CP-3116] p 44 N91-25755	heated skin
sciences geostationary platform concept [NASA-TP-3083] p 15 N91-27180	TELEOPERATORS	(NASA-TP-3100) p.26 N91-22509 Payload bay doors and radiator panels familiarization
SYNCHRONOUS SATELLITES	Human Machine Interfaces for Teleoperators and Virtual	handbook
Packaging, development, and on-orbit assembly options	Environments Conference	[NASA-TM-107793] p 15 N92-20676
for large geostationary spacecraft [NASA-TP-3088] p 17 N91-27182	(NASA-CP-10071) p 40 N92-11638 TELEROBOTICS	THERMAL SIMULATION Sixteenth Space Simulation Conference Confirming
SYSTEM EFFECTIVENESS	The effect of bandwidth on telerobot system	Spaceworthiness Into the Next Millennium
Experimental and analytical evaluation of efficiency of	performance	[NASA-CP-3096] p 17 N91-19126
helicopter planetary stage [NASA-TP-3063] p 28 N91-12956	[NASA-TP-3152] p 28 N91-30540 Automation and Robotics for Space-Based Systems,	THERMAL STABILITY High-temperature durability considerations for HSCT
SYSTEM IDENTIFICATION	1991	combustor
Identification of linear systems by an asymptotically	(NASA-CP-10098) p 43 N92-27763	[NASA-TP-3162] p 23 N92-17070
stable observer [NASA-TP-3164] p 31 N92-26537	TEMPERATURE CONTROL LDEF: 69 Months in Space. First Post-Retrieval	THERMODYNAMIC EQUILIBRIUM Aeroacoustic and aerodynamic applications of the theory
SYSTEMS ANALYSIS	Symposium, part 3	of nonequilibrium thermodynamics
Benefits from synergies and advanced technologies for	[NASA-CP-3134-PT-3] p 52 N92-27083	[NASA-TP-3118] p 26 N91-25352
an advanced-technology space station [NASA-TP-3067] p 14 N91-20177	TEMPERATURE DEPENDENCE Gibbs free energy of reactions involving SrC, Si3N4, H2,	Calculations and curve fits of thermodynamic and transport properties for equilibrium air to 30000 K
SYSTEMS ENGINEERING	and H2O as a function of temperature and pressure	[NASA-RP-1260] p 26 N92-11285
Space Transportation Avionics Technology Symposium.	[NASA-TP-3275] p 23 N92-31278	THERMODYNAMIC PROPERTIES
Volume 2: Conference Proceedings [NASA-CP-3081-VOL-2] p 11 N91-17020	TEMPERATURE EFFECTS Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo	Electrochemical studies of corrosion inhibitors [NASA-TP-3066] p.22 N91-17208
The 1991 Goddard Conference on Space Applications	intermetallic alloy	AMSAHTS 1990: Advances in Materials Science and
of Artificial Intelligence	[NASA-TP-3044] p 22 N91-13522	Applications of High Temperature Superconductors
[NASA-CP-3110] p 43 N91-22769 NASA-LaRc Flight-Critical Digital Systems Technology	Investigation of microstructural changes in polyetherether-ketone films at cryogenic temperatures by	[NASA-CP-3100] p 22 N92-21605
Workshop	positron lifetime spectroscopy	THERMODYNAMICS Gibbs free energy of reactions involving SiC, Si3N4, H2,
[NASA-CP-10028] p.11 f.1-24200	[NASA-TP-3064] p.21 N91-18216	and H2O as a function of temperature and pressure
Flight tests with a data link used for air traffic control information exchange	The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets	[NASA-TP-3275] p 23 N92-31278
[NASA-TP-3135] p 11 N91-31143	(NASA-TP-3119) p 25 N92-11252	THERMOPLASTIC RESINS Compression behavior of graphite-thermoplastic and
Beyond the Baseline 1991: Proceedings of the Space	Effect of temperature and gap opening rate on the	graphite-epoxy panels with circular holes or impact
Station Evolution Symposium, Volume 2: Space Station	resiliency of candidate solid rocket booster O-ring	damage [NASA-TP:3071] p.21 N91-18215
Freedom; part 2 [NASA-CP-10083-VOL-2-PT-2] p 18 N92-17348	materials [NASA-TP-3226] p.23 N92-27194	THESAURI D 21 N91-18215
SYSTEMS INTEGRATION	TEMPERATURE PROFILES	NASA Thesaurus supplement. A four part cumulative
Space Transportation Avionics Technology Symposium. Volume 2: Conference Proceedings	SAM 2 measurements of the polar stratospheric aerosol Volume 9: October 1982 - April 1983	supplement to the 1988 edition of the NASA Thesaurus (supplement 4)
[NASA-CP-3081-VOL-2] p 11 N91-17020	[NASA-RP-1244] p 33 N91-18505	(NASA-SP-7064-SUPPL-4) p 47 N91-10804

NASA Thesaurus supplement. A four part cumulative	Experimental measurement of the orbital paths of	Effects of yaw angle and Reynolds number on
supplement to the 1988 edition of the NASA Thesaurus	particles sedimenting within a rotating viscous fluid as	rectangular-box cavities at subsonic and transonic
(supplement 5) (NASA-SP-7064-SUPPL-5) p 47 N91-19962	influenced by gravity [NASA-TP-3200] p.40 N92-28897	speeds [NASA-TP-3099] p.5 N91-27124
THIN FILMS	TITANIUM ALLOYS	Calculation of unsteady transpric flows with mild
Low-energy positron flux generator for microstructural	Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo	separation by viscous-inviscid interaction
characterization of thin films	intermetallic alloy	[NASA-TP-3197] p.7 N92-28477
[NASA-TP-3074] p 27 N91-22538	[NASA-TP-3044] p 22 N91-13522	TRANSONIC FLUTTER
THIN WALLED SHELLS	Surface effects on hydrogen permeation through	Span reduction effects on the flutter characteristics of
Diffracted and head waves associated with waves on	Ti-14Al-21Nb alloy	arrow-wing supersonic transport configurations
nonseparable surfaces	[NASA-TP-3109] p 23 N91-20266 TOLERANCES (MECHANICS)	[NASA-TP-3077] p.11 N91-21127
[NASA-TP-3169] p 7 N92-20545	An examination of the damage tolerance enhancement	Planform curvature effects on flutter characteristics of
THIN WACLS	of carbon/epoxy using an outer famina of spectra (R)	a wing with 56 deg leading-edge sweep and panel aspect
Effect of type of load on stress analysis of thin-walled ducts	[NASA-TP-3160] p 21 N92-11142	ratio of 1.14 [NASA-TP-3116] p.11 N92-13054
[NASA-TP-3248] p 31 N92-26669	TOLLMIEN-SCHLICHTING WAVES	TRANSONIC SPEED
THREE DIMENSIONAL BODIES	A weakly nonlinear theory for wave-vortex interactions	A method for the design of transonic flexible wings
Three-dimensional laser window formation	In curved channel flow [NASA-TP-3158] p.7 N92-19175	[NASA-TP-3045] p 10 N91-14323
[NASA-RP-1280] p 14 N92-30307	[NASA-TP-3158] p.7 N92-19175 TORQUE	TRANSONIC WIND TUNNELS
THREE DIMENSIONAL FLOW	The validation of a human force model to predict dynamic	Comparison of a two-dimensional adaptive-wall
Three-component laser anemometer measurement	forces resulting from multi-joint motions	technique with analytical wall interference correction
systems	(NASA-TP-3206) p 40 N92-26538	techniques
[NASA-TP-3080] p.5 N91-19057	Correlation and prediction of dynamic human isolated	[NASA-TP-3132] p 7 N92-20494
Calculation of unsteady transpric flows with mild separation by viscous-inviscid interaction	joint strength from lean body mass	TRANSPORT AIRCRAFT
(NASA-TP-3197) p 7 N92-28477	[NASA-TP-3207] p 40 N92-26682	Effect of location of aft-mounted nacelles on the longitudinal aerodynamic characteristics of a high-wing
THREE DIMENSIONAL MODELS	TOTAL OZONE MAPPING SPECTROMETER Nimbus-7 TOMS Antarctic ozone atlas. August -	transport airplane
A three-dimensional finite-element thermal/mechanical	December 1990	[NASA-TP-3047] p.4 N91-13402
analytical technique for high-performance traveling wave	[NASA-RP-1264] p 35 N91-26651	The atmospheric effects of stratospheric aircraft. A first
tubes	TOTAL QUALITY MANAGEMENT	program report
[NASA-TP-3081] p 25 N91-27436	The role of failure/problems in engineering A	[NASA-RP-1272] p.33 N92-19121
A method for determining spiral-bevel gear tooth	commentary of failures experienced - lessons learned	Applications of a direct/iterative design method to
geometry for finite element analysis	[NASA-TP-3213] p 24 N92-22235	complex transonic configurations
[NASA-TP-3096] p 28 N92-10195	TOXICITY Space Station Freedom Toxic and Reactive Materials	[NASA-TP-3234] p.8 N92-33484
Stress concentrations for straight-shank and	Handling	TRANSPORT PROPERTIES
countersunk holes in plates subjected to tension, bending, and pin loading	[NASA-CP-3085] p 48 N91-15930	Calculations and curve fits of thermodynamic and transport properties for equilibrium a 1 to 30000 K.
[NASA-TP-3192] p 31 N92-25997	TRACKING NETWORKS	[NASA-RP-1260] 26 N92-11265
THRUST REVERSAL	Proceedings of the 23rd Annual Precise Time and Time	TRANSPORT THEORY
Static performance of a cruciform nozzle with multiaxis	Interval (PTTI) Applications and Planning Meeting	Benchmark solutions for the galactic heavy-ion transport
thrust-vectoring and reverse-thrust capabilities	[NASA-CP-3159] p 44 N92-333: 0	equations with energy and spatial coupling
{NASA-TP-3188} p 7 N92-23095	TRAILING EDGES NACA 0015 wing pressure and trailing vorte.	[NASA-TP-3112] p 44 N92-13756
THRUST VECTOR CONTROL	measurements	Transport methods and interactions for space
Static thrust-vectoring performance of nonaxisymmetric	[NASA-TP-3151] p.6 N92-10981	radiations
convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p.5 N91-21059	TRAJECTORIES	["ASA-RP-1257] p.51 N92-15956
[NASA-TP-3085] p 5 N91-21059 Aeropropulsive characteristics of canted twin	Trajectory fitting in function space with application to	An efficient HZETRN (a galactic cosmic ray transport
pitch-vectoring nozzles at Mach 0 20 to 1.20	analytic modeling of surfaces	code) [NASA-TP-3147] p.51 N92-22218
[NASA-TP-3060] p 5 N91-22069	[NASA-TP-3232] p.8 N92-30747 TRAJECTORY CONTROL	TRAPPED PARTICLES
Static performance of a cruciform nozzle with multiaxis	Application and flight test of linearizing transformations	Proceedings of the 23rd Annual Precise Time and Time
thrust-vectoring and reverse-thrust capabilities	using measurement feedback to the nonlinear control	Interval (PTTI) Applications and Planning Meeting
(NASA-TP-3188) p.7 N92-23095	problem	[NASA-CP-3159] p 44 N92-33350
THRUST-WEIGHT RATIO	[NASA-TP-3154] p 12 N91-30154	TRAVELING WAVE TUBES
Parametric trade studies on a Shuttle 2 launch system	TRANSFER FUNCTIONS	A three-dimensional finite-element thermal/mechanical
architecture	On the formulation of a minimal uncertainty model for	analytical technique for high-performance traveling wave
[NASA-TP-3059] p 14 N91-18180 THUNDERSTORMS	robust control with structured uncertainty [NASA-TP-3094] p 13 N92-10027	tubes [NASA-TP-3081] p.25 N91-27436
Increasionms Inertial oscillation of a vertical rotating draft with	TRANSITION FLOW	[NASA-TP-3081] p 25 N91-27436 TRIBOLOGY
application to a supercell storm	Modeling of the heat transfer in bypass transitional	The 25th Aerospace Mechanisms Symposium
[NASA-TP-3230] p 36 N92-33482	boundary-layer flows	[NASA-CP-3113] p 30 N91-24603
Inertial oscillation of a vertical rotating draft with	[NASA-TP-3170] p 27 N92-11299	Fundamentals of fluid lubrication
application to a supercell storm: Video supplement to	TRANSMISSIONS (MACHINE ELEMENTS)	[NASA-RP-1255] p 28 N91-30531
NASA Technical Paper 3230	Experimental and analytical evaluation of efficiency of	TROPOSPHERE
[NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246	helicopter planetary stage [NASA-TP-3063] p 28 N91-12956	Sixteenth International Laser Radar Conference, part
TIME The 22nd Annual Precise Time and Time Interval (PTTI)	Development of a full-scale transmission testing	2 [NASA-CP-3158-PT-2] p 28 N92-31013
Applications and Planning Meeting	procedure to evaluate advanced lubricants	TRUNCATION ERRORS
[NASA-CP-3116] p 44 N91-25755	[NASA-TP-3265] p 28 N92-30396	The effect of acceleration versus displacement methods
TIME DIVISION MULTIPLEXING	TRANSMITTERS	on steady-state boundary forces
Destination-directed, packet-switching architecture for	Propagation effects for land mobile satellite systems.	[NASA-TP-3218] p 30 N92-21457
30/20-GHz FDMA/TDM geostationary communications	Overview of experimental and modeling results	TRUSSES
satellite network	[NASA-RP-1274] p 25 N92-20404	Thermal-distortion analysis of a spacecraft box truss in
[NASA-TP-3201] p 16 N92-19762 TIME MEASUREMENT	TRANSONIC FLOW	geostationary orbit [NASA-TP-3054] p 16 N91-11041
The 22nd Annual Precise Time and Time Interval (PTTI)	Transonic flow analysis for rotors. Part 3:	Stiffness and strength tailoring in uniform space-filling
Applications and Planning Meeting	Three-dimensional, quasi-steady, Euler calculation [NASA-TP-2375] p.3 N91-10007	truss structures
[NASA-CP-3116] p 44 N91-25755	Prediction of effects of wing contour modifications on	[NASA-TP-3210] p 30 N92-24546
Positron lifetime measurements in chiral nematic liquid	low-speed maximum lift and transonic performance for the	Development of a truss joint for robotic assembly of
crystals	EA-6B aircraft	space structures
[NASA-TP-3122] p 46 N92-10677	[NASA-TP-3046] p.4 N91-10902	[NASA-TP-3214] p 31 N92-27974
Experimental validation of clock synchronization algorithms	Relative efficiency and accuracy of two Navier-Stokes	Software design for automated assembly of truss
[NASA-TP-3209] p 42 N92-27589	codes for simulating attached transonic flow over wings	structures [NASA-TP-3198] p.43 N92-28375
Proceedings of the 23rd Annual Precise Time and Time	[NASA-TP-3061] p 26 N91-17310	TUNGSTEN p = 3 (192:26375
Interval (PTTI) Applications and Planning Meeting	Wall-interference assessment and corrections for	Low-energy positron flux generator for microstructural
[NASA-CP-3159] p 44 N92-33350	transonic NACA 0012 airfoil data from various wind	characterization of thin films
TIMING DEVICES	tunnels [NASA-TP-3070] p.5 N91-20043	[NASA-TP-3074] p 27 N91-22538
Reliability of a Shuttle reaction timer	Numerical study of the aerodynamic effects of using	TURBINE BLADES
[NASA-TP-3176] p 40 N92-16562 TISSUES (BIOLOGY)	sulfur hexafluoride as a test gas in wind tunnels	Laser anemometer measurements and computations in
Analysis of gravity-induced particle motion and fluid	[NASA-TP-3086] n 5 N91-22070	an annular cascade of high turning core turbine vanes [NASA-TF-J252] p.8 N92-28980
perfusion flow in the NASA-designed rotating	Transonic Symposium Theory, Application and	TURBINE PUMPS p 6 naz-26a60
zero-head-space tissue culture vessel	Experiment, volume 2	Limit cycle vibrations in turbomachinery
[NASA-TP-3143] p 24 N92-13340	[NASA-CP-3020-VOL-2] p.5 N91-24132	[NASA-TP-3181] p 20 N92-14108
[UNDM-18-3143] D.S4 (432-13340)		, , , , , , , , , , , , , , , , , , , ,

TURBOFAN AIRCRAFT	ULTRAHIGH FREQUENCIES	VENTURI TUBES
Annoyance caused by advanced turboprop aircraft	Propagation effects for land mobile satellite systems	Venturi air jet vacuum ejectors for high-volume
flyover noise. Comparison of different propeller	Overview of experimental and modeling results	atmospheric sampling on aircraft platforms INASA-TP-31831 p.11 N92-20546
configurations [NASA-TP-3104] p 45 N92-11758	(NASA-RP-1274) p 25 N92-20404	[NASA-TP-3183] p 11 N92-20546 VERTICAL AIR CURRENTS
Annoyance caused by aircraft en route noise	ULTRAHIGH VACUUM Surface effects on hydrogen permeation through	Inertial oscillation of a vertical rotating draft with
[NASA-TP-3165] p 45 N92-20479	Tr-14Ai-21Nb alloy	application to a supercell storm. Video supplement to
TURBOFAN ENGINES	[NASA-TP-3109] p 23 N91-20266	NASA Technical Paper 3230
Installation effects of wing-mounted turbofan	ULTRASONIC FLAW DETECTION	[NASA-IP-3230-VIDEO-SUPPL] p 36 N92-34246
nacelle-pylons on a 1/17-scale, twin-engine, low-wing	Second Conference on NDE for Aerospace	VERTICAL LANDING
transport model	Requirements	Static internal performance of ventral and rear nozzle
(NASA-TP-3168) p 7 N92-19002 TURBOFANS	[NASA-CP-3091] p 16 N91-18169	concepts for short-takeon and vertical-landing arcraft [NASA-TP-3103] p.6. N92-10975
Installation effects of wing-mounted turbofan	UNIQUENESS THEOREM	VIBRATION po (1921)1975
nacelle-pyrons on a 1/17-scale, twin-engine, low-wing	Shock wave interaction with an abrupt area change	Limit cycle vibrations in turbomachinery
transport model	[NASA-TP-3113] p.6 N91-27140 UNITED STATES	[NASA-TP-3181] p 20 N92-14108
[NASA-TP-3168] p.7 N92-19002	The Federal Conference on Intelligent Processing	VIBRATION DAMPING
Supersonic Throughflow Fan Test Facility at NASA.	Equipment	Design of control laws for flutter suppression based on
Lewis Research Center	[NASA-CP-3138] p 52 N92-24987	the aerodynamic energy concept and comparisons with
[NASA-TP-3038] p 13 N92-31640	UNIVERSITY PROGRAM	other design methods
Three-component laser anemometer measurement	Joint University Program for Air Transportation	[NASA-TP-3056] p.29 N91-10328 Fourth NASA Workshop on Correputational Control of
systems	Research, 1989-1990	Flexible Aerospace Systems, part 2
[NASA-TP-3080] p.5 N91-19057	[NASA-CP-3095] p1 N91-19024	[NASA-CP-10065-PT-2] p 17 N91-22331
Computational Fluid Dynamics Symposium on	Technology for the Future In-Space Technology Experiments Program, part 1	A scheme for bandpass filtering magnetometer
Aeropropulsion	[NASA-CP-10073-PT-1] p 14 N91-27177	measurements to reconstruct tethered satellite skipropu
[NASA-CP-3078] p.5 N91-21062	Technology for the Future: In-Space Technology	motion
Limit cycle vibrations in turbomachinery	Experiments Program, part 2	[NASA-TP-3123] p 42 N91-25629
[NASA-TP-3181] p 20 N92-14108	[NASA-CP-10073-PT-2] p 14 N91-27178	Rotordynamic Instability Problems in High-Performance
Rotordynamic Instability Problems in High-Performance	Joint University Program for Air Transportation	Turbomachinery, 1990 (NASA CO 0100) p.26 N92-14346
Turbomachinery, 1990 (NASA-CP-3122) p.28 N92-14346	Research 1990-1991	VIBRATION EFFECTS
Laser anemometer measurements and computations in	[NASA-CP-3131] p.3 N92-17984	Free vibrations of thin-walled semicircular
an annular cascade of high turning core turbine vanes	UNSTEADY AERODYNAMICS	graphite-epoxy composite frames
[NASA-TP-3252] p 8 N92-28980	Physically weighted approximations of unsteady	[NASA-TP-3010] p 29 N91-13750
Tenth Workshop for Computational Fluid Dynamic	eerodynamic forces using the minimum-state method [NASA-TP-3025] p.4 N91-18031	VIBRATION ISOLATORS
Applications in Rocket Propulsion, part 1	UNSTEADY FLOW	international Workshop on Vibration Isolation
[NASA-CP-3163-PT-1] p 27 N92-32278	Calculation of unsteady transonic flows with mild	Technology for Microgravity Science Applications
TURBOPROP AIRCRAFT	separation by viscous-inviscid interaction	[NASA-CP-10094] p 24 N92-28436
Annoyance caused by advanced turboprop aircraft	[NASA-TP-3197] p 7 N92-28477	VIBRATION MODE
tlyover noise: Comparison of different propeller	UPPER ATMOSPHERE	Influence of mass moment of inertia on normal modes
configurations [NASA-TP-3104] p 45 N92-11758	The High Resolution Accelerometer Package (HiRAP)	of preloaded solar array mast [NASA-TP-3273] p 31 N92-33476
Annoyance caused by aircraft en route noise	flight experiment summary for the first 10 flights	VIDEO DATA
[NASA-TP-3165] p 45 N92-23479	[NASA-RP-1267] p 3 N92-22505	High Resolution, High Frame Rate Video Technology
TURBULENCE	UPPER STAGE ROCKET ENGINES Graphite/epoxy composite adapters for the Space	[NAŠA-CP-3080] p 27 N91-14574
State estimation applications in aircraft flight-data	Shuttle/Centaur vehicle	The effects of video compression on acceptability of
analysis: A user's manual for SMACK	[NASA-TP-3014] p 15 N92-31251	images for monitoring life sciences experiments
[NASA-RP-1252] p 10 N91-19082	USER MANUALS (COMPUTER PROGRAMS)	(NASA-TP-3239) p 16 N92-33933
Workshop on Engineering Turbulence Modeling	State estimation applications in aircraft flight-data	VISCOUS FLOW
[NASA-CP-10088] p 27 N92-24514	analysis: A user's manual for SMACK	Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p 25 N91-15499
Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes	[NASA-RP-1252] p 10 N91-19082	An upwind-biased space marching algorithm for
[NASA-TP-3252] p.8 N92-28980	USER REQUIREMENTS	supersonic viscous flow
Direct simulation of high-speed mixing layers	Beyond the Baseline 1991: Proceedings of the Space Station Evolution Symposium. Volume 1: Space Station	(NASA-TP-3068) p.26 N91-18381
[NASA-TP-3186] p.c. N92-30909	Freedom, part 1	Aeroacoustic and aerodynamic applications of the theory
TURBULENCE EFFECTS	INASA-CP-10083-VOL-1-PT-1] p 18 N92-17098	of nonequilibrium thermodynamics
High-Speed Research: Sonic Boom, volume 1	Beyond the Baseline 1991: Proceedings of the Space	[NASA-TP-3118] p.26 N91-25352
[NASA-CP-3172] p 11 N92-33874	Station Evolution Symposium, Volume 2: Space Station	Calculation of unsteady transonic flows with mild
TURBULENCE MODELS	Freedom, part 1	separation by viscous-inviscid interaction [NASA-TP-3197] p.7 N92-28477
NASA Computational Fluid Dynamics Conference. Volume 1: Sessions 1-6	[NASA-CP-10083-VOL-2-PT-1] p 18 N92-17768	[NASA-TP-3197] p.7 N92-28477 Stagnation-point heat-transfer rate predictions at
[NASA-CP-10038-VOL-1] p.4 N91-10839	_	aeroassist flight conditions
Computational Fluid Dynamics Symposium on	V	[NASA-TP-3208] p 27 N92-31281
Aeropropulsion	<u>-</u>	VISCOUS FLUIDS
[NASA-CP-3078] p.5 N91-21062	VACUUM	Experimental measurement of the orbital paths of
Workshop on Engineering Turbulence Modeling	The 25th Aerospace Mechanisms Symposium	particles sedimenting within a rotating viscous fluid as
[NASA-CP-10088] p 27 N92-24514	[NASA-CP-3113] p 30 N91-24603	influenced by gravity
TURBULENT BOUNDARY LAYER Evaluation of a technique to generate artificially	VACUUM PUMPS	(NASA-TP-3200) p 40 N92-28897 VISUAL CONTROL
thickened boundary layers in supersonic and hypersonic	Venturi air-jet vacuum ejectors for high-volume	Visually Guided Control of Movement
flows	atmospheric sampling on aircraft platforms [NASA-TP-3183] p.11 N92-20546	[NASA-CP-3118] p 39 N92-21467
[NASA-TP-3142] p.6 N91-28136	VACUUM TESTS p 11 N92-20546	VISUAL PERCEPTION
TURBULENT FLOW	Outgassing data for selecting spacecraft materials.	Visually Guided Control of Movement
Numerical study of the serodynamic effects of using	revision 2	[NASA-CP-3118] p.39 N92-21467
sulfur hexatluoride as a test gas in wind tunnels	[NASA-RP-1124-REV-2] p 21 N91-14437	VISUAL STIMULI
[NASA-TP-3086] p 5 N91-22070	VANES	Reliability of a Shuttle reaction timer
Laser anemometer measurements and computations in	Laser anemometer measurements and computations in	[NASA-TP-3176] p 40 N92-16562
an annutar cascade of high turning core turbine vanes	an annular cascade of high turning core turbine vanes	VOICE COMMUNICATION
(NASA-TP-3252) p 8 N92-28980 TWISTED WINGS	[NASA-TP-3252] p.B. N92-28980 VARIATIONAL PRINCIPLES	Flight tests with a data link used for air traffic control information exchange.
Survey and analysis of research on supersonic	Computational methods for frictionless contact with	(NASA-TP-3135) p.11 N91-31143
drag-due-to-lift minimization with recommendations for	application to Space Shuttle Orbiter nose-gear tires	VOLCANOES
wing design	[NASA-TP-3073] p 30 N91-22576	International Workshop on Stratospheric Aerosols
[NASA-TP-3202] p 9 N92-33656	VEHICULAR TRACKS	Measurements, Properties, and Effects
TWO DIMENSIONAL FLOW	Static footprint local forces, areas, and aspect ratios	[NASA-CP-3114] p.32 N91-32528
Static performance of a cruciform nozzle with multiaxis	for three type 7 aircraft tires	Sixteenth International Laser Radar Conference, part
thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095	(NASA-TP-2983) p 10 N91-17014	I NACA CO SIGN DT 11 A TO AIGH TO
[NASA-TP-3188] p.7 N92-23095	VELOCITY MEASUREMENT NACA 0015 wing pressure and trailing vortex	[NASA-CP-3158-PT-1] p 28 N92-29228 VOLCANOLOGY
	measurements	Volcanism-Climate Interactions
U	[NASA-TP-3151] p.6 N92-10981	[NASA-CP-10062] p 34 N91-21641
	VENTS	VOLUME
U.S.S.R. SPACE PROGRAM	Experimental investigation of porous floor effects on	An investigation of microstructural characteristics of
Exobiology on Mars	cavity flow fields at supersonic speeds	contact-lens polymers
[NASA-CP-10055] p 41 N91-15691	[NASA-TP-3032] p.5 N91-19042	[NASA-TP-3034] p 21 N91 13492

[NASA-CP-10040]

[NASA-TP-3275]

WATER

p 40 N91-24744

p 23 N92-31278

Gibbs free energy of reactions involving SiC, Si3N4, H2,

and H2O as a function of temperature and pressure

INASA-CP-10060-PT-11

[NASA-TP-3230]

application to a supercell storm

Inertial oscillation of a vertical rotating draft with

p.9 N91-24166

p 36 N92-33482

(NASA-TP-32361

INASA-TP-32401

VORTEX BREAKDOWN WATER VAPOR Wind tunnel investigation of vortex flows on F/A-18 The role of water vapor in climate. A strategic research configuration at subsonic through transonic speed plan for the proposed GEWEX water vapor project INASA-TP-31111 D 6 N92-14968 (GVaP) [NASA-CP-3120] p 35 N91-25556 VORTEX SHEDDING WATER WAVES Flow-induced resonance of screen-covered cavities NASA-TP-3052 A self-zeroing capacitance probe for water wave p 25 N91-15499 measurements VORTICES INASA.RP.12781 p 36 N92-27930 Detailed flow-field measurements over a 75 deg swept WAVE DIFFRACTION p.4 N91-18030 Diffracted and head waves associated with waves on [NASA-TP-2997] nonseparable surfaces NACA 0015 wing pressure and trailing vortex [NASA-TP-3169] p.7 N92-20545 measurements INASA-TP-31511 p 6 N92-10981 A method for designing blended wing-body A comparison of airborne wake vortex detection configurations for low wave drag measurements with values predicted from potential [NASA-TP-3261] p 8 N92-32480 theory WAVE EQUATIONS p 10 N92-10994 [NASA-TP-3125] Monograph on propagation of sound waves in curved Wind tunnel investigation of the interaction and breakdown characteristics of slender wing vortices at cation of 1 14 INASA-RP-12481 p 44 N91-15848 subsonic, transonic, and supersonic speeds WAVE PROPAGATION INASA-TP-31141 p.6 N92-12994 Propagation effects for land mobile satellite systems Wind tunnel investigation of vortex flows on F/A-18 Overview of experimental and modeling results configuration at subsonic through transonic speed INASA-RP-12741 p 25 N92-20404 INASA-TP-31111 p.6 N92-14968 **WAVE REFLECTION** A weakly nonlinear theory for wave-vortex interactions Validation of three-dimensional incompressible spatial in curved channel flow direct numerical simulation code. A comparison with linear INASA-TP-31581 p.7 N92-19175 stability and parabolic stability equation theories for Influence of airfoil geometry on delta wing leading-edge boundary-layer transition on a flat plate [NASA-TP-3205] EA-68 arcraft vortices and vortex-induced aerodynamics at supersonic p.8 N92-30295 speeds **WEAR TESTS** [NASA-TP-3105] o 7 N92-20038 Development of a full-scale transmission testing procedure to evaluate advanced lubricants [NASA-TP-3265] WEATHER NASA/MSFC FY9C Global Scale Atmospheric WAKES Processes Research Program Review Wake geometry effects on rotor blade-vortex interaction p 35 N91-16500 INASA-CP-30931 WEATHER FORECASTING p 44 N91-12315 INASA-TP-30151 A comparison of airborne wake vortex detection NASA/MSFC FY91 Global Scale Atmospheric measurements with values predicted from potential Processes Research Program Review [NASA-CP-3126] theory {NASA-TP-31251 p 35 N91-32660 The 1991 International Aerospace and Ground p 10 N92-10994 Conference on Lightning and Static Electricity, volume 2 WALKING [NASA-CP-3106-VOL-2] p 36 N91-32693 Techniques for determination of impact forces during WEBS (SUPPORTS) walking and running in a zero-G environment NASA-TP-3159 Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression WALL FLOW [NASA-TP-3171] Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind WEDGES Large-scale aeroacoustic research feasibility and [NASA-TP-3070] conceptual design of test-section inserts for the Ames 80p 5 N91-20043 Comparison of a two-dimensional adaptive-wall by 120-foot wind tunnel (NASA-TP-3020) p 45 N91-19824 technique with analytical wall interference correction WEIGHT REDUCTION techniques Multidisciplinary optimization of controlled space structures with global sensitivity equations INASA-TP-31321 p 7 N92-20494 WALL TEMPERATURE NASA-TP-31301 p 18 N92-11087 Longitudinal aerodynamic characteristics of a subsonic, energy-efficient transport configuration in the National WEIGHTLESSNESS Workshop on Exercise Prescription for Long-Duration Transonic Facility Space Flight INASA-CP-30511 [NASA-TP-2922] p.6 N91-28143 ratio of 1.14 p 36 N91-10574 WALLOPS ISLAND NASA Wallops Flight Facility Air-Sea Interaction Research Facility WEIGHTLESSNESS SIMULATION Techniques for determination of impact forces during [NASA-RP-1277] walking and running in a zero-G environment p 36 N92-25981 [NASA-TP-3159] p 38 N92-17022 WALLS Eccentric and concentric muscle performance following Large-scale aeroacoustic research feasibility and 7 days of simulated weightlessness concentual design of test-section inserts for the Ames 80speeds by 120 foot wind tunnel [NASA-TP-3182] p 39 N92-17645 [NASA-TP-3020] WELDED JOINTS p 45 N91-19824 WARNING SYSTEMS Plate and butt-weld stresses beyond elastic limit, material and structural modeling Airborne Wind Shear Detection and Warning Systems INASA-TP-30751 Second Combined Manufacturers' and Technologists WIND SHEAR (NASA-CP-10050-PT-11 Airborne Wind Shear Detection and Warning Systems. p.9 N91-11682 Second Combined Manufacturers' and Technologists' Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists Conference, part 1 [NASA-CP-10050-PT-1] Conference, part 2 p 9 N91-11682 INASA-CP-10050-PT-2 p 9 N91-11695 Airborne Wind Shear Detection and Warning Systems Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, part 2 Third Combined Manufacturers' and Technologists' Conference, part 2 NASA-CP-10050-PT-21 o 9 N91-11695 [NASA-CP-10060-PT-2] Wind turbine acoustics Airborne Wind Shear Detection and Warning Systems. INASA-TP-30571 p 44 N91-16679 Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists' Third Combined Manufacturers' and Technologists' Conference, part 1 INASA-CP-10060-PT-11 p 9 N91-24166 Conference, part 2 [NASA-CP-10060-PT-2] WASTE TREATMENT Airborne Wind Shear Detection and Warning Systems Controlled Ecological Life Support Systems: Natural and Third Combined Manufacturers' and Technologists' Artificial Ecosystems

WIND TUNNEL APPARATUS Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80by 120-foot wind tunnel (NASA-TP-3020) p 45 N91-19824 WIND TUNNEL DRIVES Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center [NASA-TP-3038] p 13 N92-31640 WIND TUNNEL MODELS Experimental investigation of porous-floor effects on cavity flow fields at supersonic speeds NASA-TP-30321 p.5 N91-19042 Evaluation of a technique to generate artificially thickened boundary layers in supersonic and hypersonic INASA-TP-31421 p.6 N91-28136 Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect INASA-TP-31161 p 11 N92-13054 Effect of afferbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers INASA-TP-32361 p.9 N92-33706 WIND TUNNEL TESTS Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the INASA-TP-30461 p.4 N91-10902 Wake geometry effects on rotor blade-vortex interaction noise directivity INASA-TP-30151 p 44 N91-12315 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [N/.SA-TP-3053] p 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80by 120-foot wind tunnel INASA-TP-30201 p 45 N91-19824 Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations NASA-TP-3077] p 11 N91 21127 Numerical study of the aerodynamic effects of using ulfur hexafluonde as a test gas in wind tunnels p 5 N91-22070 INASA-TP-30861 Application and Transonic Symposium. Theory. Experiment, volume 2 [NASA-CP-3020-VOL-2] p.5 N91-24132 Low-speed, powered ground effects of a generic. hypersonic configuration [NASA-TP-3092] p.5 N91-25103 Sand and Dust on Mars [NASA-CP-10074] p 50 N91-27057 Full-scale semispan tests of a business-jet wing with a natural laminar flow airfoil INASA-TP-31331 p.6 N91-30098 Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect INASA-TP-31161 p 11 N92-13054 Wind tunnel investigation of vurtex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92 14968 Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic [NASA-TP-3105] Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities INASA-TP-31881 p 7 N92-23095 Wind-tunnel static and free-flight investigation of high-angle-of-attack stability and control characteristics of a model of the EA-68 airplane INASA-TP-31941 p 7 N92-25276 Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to conter fuselages INASA-TP-32331 p.8 N92-30394 Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 Wind tunnel aerodynamic characteristics of a transport-type airfoil in a simulated heavy rain p.8 N92-31532 [NASA-TP-3184] Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers

p.9 N92-33706

p.9 N92-34193

Parametric investigation of single-expansion-ramp

nozzles at Mach numbers from 0.60 to 1.20

WIND TUNNEL WALLS

Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel

p 13 N91-13461 [NASA-TP-3049] Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind

[NASA-TP-3070] p 5 N91-20043

Comparison of a two-dimensional adaptive-wall technique with analytical wall interference correction techniques [NASA-TP-3132] p 7 N92-20494

WIND TURBINES

Wind turbine acoustics

p 44 N91-16679
WING NACELLE CONFIGURATIONS
Effect of Incartic Effect of location of aft-mounted nacelles on the longitudinal aerodynamic characteristics of a high-wing

[NASA-TP-3047] p.4 N91-13402 Installation effects of wing-mounted turbofan nacelle-pylons on a 1/17-scale, twin-engine, low-wing transport model

WING PANELS

Optimization of composite sandwich cover panels subjected to compressive loadings

p 21 N92-20679 [NASA-TP-3173]

WING PROFILES

Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft [NASA-TP-3046]

p 4 N91-10902 Relative efficiency and accuracy of two Navier-Stokes codes for simulating attached transonic flow over wings [NASA-TP-3061] p 26 N91-17310

WING SPAN

Soan reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations
[NASA-TP-3077] p 11 h

p 11 N91-21127

WING TIPS

NACA 0015 wing pressure and trailing vortex measurements p 6 N92-10981

[NASA-TP-3151] WINGS

NACA 0015 wing pressure and trailing vortex measurements

[NASA-TP-3151] p 6 N92-10981

Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968

Survey and analysis of research on supersonic drag-due-to-lift minimization with recommendations for

wing design [NASA-TP-3202] p 9 N92-33656

WOOD

Structural properties of laminated Douglas fir/epoxy

[NASA-RP-1236] p 20 N91-10127

WORK CAPACITY

A method of evaluating efficiency during space-suited

work in a neutral buoyancy environment

p 40 N92-19772 INASA-TP-31531

WORKSTATIONS

Report of the workshop on Aviation Safety/Automation

Program [NASA-CP-10054] p 9 N91-15141

WRIST

The validation of a human force model to predict dynamic forces resulting from multi-joint motions [NASA-TP-3206]

p 40 N92-26538

X

X RAYS

Multiple lesion track structure model

p 39 N92-22186 [NASA-TP-3185]

Feasibility study of a low-energy gamma ray system for measuring quantity and flow rate of slush hydrogen [NASA-TP-3150] p 19 N92-2 p 19 N92-25147

X-15 AIRCRAFT

Proceedings of the X-15 First Flight 30th Anniversary Celebration

[NASA-CP-3105] p 10 N91-20071

Y

YAW

Static thrust-vectoring performance of nonaxisymmetric convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p 5 N91-21059

Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds

[NASA-TP-3099] YAWING MOMENTS p 5 N91-27124

A nozzle internal performance prediction method [NASA-TP-3221] p8 N92-33625

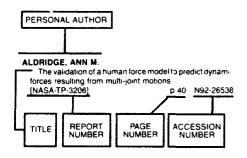
Z

ZINC-OXYGEN BATTERIES
The 1991 NASA Aerospace Battery Workshop [NASA-CP-3140] p 33 N92-22740

PERSONAL AUTHOR INDEX

NASA Scientific and Technical Publications 1991-1992

Typical Personal Author Index Listing



Listings in this index are arranged alphabetically by personal author. The title of the document provides the user with a collet description of the subject matter. The report number helps to indicate the type of document listed (e.g., NASA report, translation, NASA contractor report). The page and accession numbers are located beneath and to the right of the title. Under any one author's name the accession numbers are arranged in sequence.

ABEYOUNIS, WILLIAM K.

Effect of location of aft-mounted nacelles on the longitudinal aerodynamic characteristics of a high-wing transport airplane p 4 N91-13402

[NASA-TP-3047]

ADDY, HAROLD E., JR. Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing/anti-icing fluids

[NASA-TP-3238] p 10 N92-30395 AGGARWAL, P. K. Effect of type of load on stress analysis of thin-walled

ducts

[NASA-TP-3248] p 31 N92-26669

AIELLO, ROBERT A.

Improved accuracy for finite element structural analysis via a new integrated force method INASA-TP-32041 p 30 N92-22227

ALDRIDGE, ANN M.

The validation of a human force model to predict dynamic forces resulting from multi-joint motions

p 40 N92-26538 [NASA-TP-3206] Correlation and prediction of dynamic human isolated

joint strength from lean body mass INASA-TP-32071 p.40 N92-26682

ALHORN, D. C.

Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on gimbaled payloads

[NASA-TP-3249] p 24 N92-29677 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on

gimbaled payloads INASA TP-32821 p 25 N92-33601

ALI, MICHAEL S. The effect of bandwidth on telerobot system

performance INASA-TP-31521 p 28 N91-30540 ALLAMANDOLA, LOUIS J.

Interstellar Dust: Contributed Papers

[NASA-CP-3036] p 48 N91-14897

ALLEN, CHERYL L Guidance, navigation, and control subsystem equipment

selection algorithm using expert system methods p 42 N91-25624 NASA-TP-30821

Software design for automated assembly of truss structures

[NASA-TP-3198]

p 43 N92-28375

p 41 N91-15691

ALLISON, DENNIS O.

Prediction of effects of wing contour modifications on low-speed maximum lift and transonic performance for the EA-6B aircraft p 4 N91-10902

INASA-TP-30461 ANDERSEN, D.

Exobiology on Mars [NASA-CP-10055]

ANDERSEN, DALE T.

Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life

[NASA-CP-3129] p 41 N92-13588

ANDERSEN, KRISTINN

A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 p 24 N92-11218

ANDERSON, MELVIN S.

Axisymmetric shell analysis of the space shuttle solid rocket booster field joint INASA-TP-30331 p 28 N91-14618

ANDERSON, W. KYLE

Numerical study of the acrodynamic effects of using sulfur hexafluoride as a test gas in wind tunnels p 5 N91-22070 INASA-TP-30861

ANTONIEWICZ, ROBERT F.

Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem

[NASA-TP-3154] o 12 N91-30154

ARBUCKLE, P. DOUGLAS

A controls engineering approach for analyzing airplane input-output characteristics INASA-TP-30721 p 12 N91-20128

ARKING, ALBERT

Climate Impact of Solar Variability

p 50 N91-12456 INASA-CP-30861

ARMAND, SASAN C.

Influence of mass moment of inertia on normal modes of preloaded solar array mast

INASA-TP-32731 p 31 N92-33476 ARRAS, MICHAEL K.

Fault tolerance of artificial neural networks with applications in critical systems INASA-TP-31871 p 42 N92-22285

ASBURY, SCOTT C.

Static performance of a cruciform nozzle with multiaxis hrust-vectoring and reverse-thrust capabilities

p 7 N92-23095 INASA-TP-31881

ATENCIO, ADOLPH, JR.

J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field

p 45 N91-19823 INASA-TP-30531 ATWELL, WILLIAM

Radiation risk predictions for Space Station Freedom p 51 N91-26107 [NASA-TP-3098] Analyses of risks associated with radiation exposure

from past major solar particle events INASA-TP-31371

AVIS. LEE M.

Limb-darkening functions as derived from along-track operation of the ERBE scanning radiometers for August

[NASA-RP-1243]

p 34 N91-14683

B

BACH, RALPH E., JR.

State estimation applications in aircraft flight-data analysis: A user's manual for SMACK INASA-RP-12521 p 10 N91-19082

BADAVI, FOROOZ F.

HZETRN: A heavy ion/nucleon transport code for space [NASA-TP-3146] p 51 N92-15959 BAKER, J. T.

Responses of women to orthostatic and exercise [NASA-TP-3043]

BALDWIN, R. T.

p 37 N91-19711

Types and Characteristics of Data for Geomagnetic Field Modeling (NASA-CP-3153)

BANGERT, LINDA S.

p 31 N92-28620

Effect of afterbody geometry on aerodynamic characteristics of isolated nonaxisymmetric afterbodies at transonic Mach numbers

INASA-TP-32361 p 9 N92-33706 BARBER FRANK J

Reliability training

(NASA-RP-1253)

p 15 N92-32456

BARE, E. ANN

Parametric study of afterbody/nozzle drag on twin two-dimensional convergent-divergent nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-2640] n 4 N91-14316

Parametric investigation of single-expansion-ramp nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p 9 N92-34193

BARGER, RAYMOND L.

Diffracted and head waves associated with waves on nonseparable surfaces

[NASA-TP-3169] p 7 N92-20545 Comparison of jet plume shape predictions and plume influence on sonic boom signature

INASA-TP-31721 p 7 N92-25133 Trajectory fitting in function space with application ...

analytic modeling of surfaces [NASA-TP-3232] p 8 N92-30747 A method for designing blended wing-body

configurations for low wave drag [NASA-TP-3261] p.8 N92-32480

BARINA, FRANK J.

Reliability training (NASA-RP-1253)

p 15 N92-32456 BARNETT, ROBERT JOEL

A generalized method for multiple robotic manipulator

ogramming applied to vertical-up welding INASA-TP-31631 p 24 N92-11218

BARRETT, M.

The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights p 3 N92-22505 INASA-RP-12671

BARROWS, LINDA H

Evaluation of noninvasive cardiac output methods dunno [NASA-TP-3174] p 36 N92-16553

Fuel utilization during exercise after 7 days of bed rest INASA-TP-31751 p 38 N92-16554 Eccentric and concentric muscle performance following

7 cays of simulated weightlessness p 39 N92-17645 INASA-TP-31821 BARTHELEMY, JEAN-FRANÇOIS M.

Research in Structures, Structural Dynamics and Matenals, 1990 NASA-CP-3064 p 29 N91-10301

BARTOS, KAREN F. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave

tubes [NASA-TP-3081] p 25 N91-27436 BAUER, STEVEN X. S.

The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202 BAUGHER, CHARLES R.

Measurement and Characterization of the Acceleration Environment on Board the Space Station INASA-CP-30881

Space Station Freedom Toxic and Reactive Materials Handling [NASA-CP-3085] p 48 N91-15930

BECK, SHERWIN M. Technology for the Future: In-Space Technology Experiments Program, part 1

[NASA-CP-10073-PT-1] p 14 N91-27177

Technology for the Future: in-Space Technology	BREWER, JEFFREY C.	C
Experiments Program, part 2	The 1991 NASA Aerospace Battery Workshop	•
(NASA-CP-10073-PT-2) p 14 N91-27178	[NASA-CP-3140] p.33 N92-22740	CAMARDA, CHARLES J.
BELCASTRO, CHRISTINE M.	BRITCHER, COLIN P.	A simplified method for thermal analysis of a cowfleading
On the formulation of a minimal uncertainty model for	Aerospace Applications of Magnetic Suspension	edge subject to intense local shock-wave-interference
robust control with structured uncertainty	Technology, part 1	heating
(NASA-TP-3094) p 13 N92-10027 BENNETT, LARRY H.	[NASA-CP-10066-PT-1] p 17 N91-21188	[NASA-TP-3167] p 27 N92-24797 CAMPBELL, RICHARD L.
AMSAHTS 1990: Advances in Materials Science and	Aerospace Applications of Magnetic Suspension	A method for the design of transonic flexible wings
Applications of High Temperature Superconductors	Technology, part 2	[NASA-TP 3045] p 10 N91-14323
[NASA-CP-3100] p 22 N92-21605	[NASA-CP-10066-PT-2] p 17 N91-21203	Applications of a direct/iterative design method to
BERKE, LASZLO	International Symposium on Magnetic Suspension	complex transcric configurations
Improved accuracy for finite element structural analysis	Technology, part 1	[NASA-TP-3234] p.8 N92-33484
via a new integrated force method	[NASA-CP-3152-PT-1] p 18 N92-27721	CAMPBELL, WILLIAM A., JR.
[NASA-TP-3204] p 30 N92-22227	international Symposium on Magnetic Suspension	Outgassing data for selecting spacecraft materials.
BESS, T. DALE	Technology, part 2	revision 2
Attas of wide-field-of-view outgoing longwave radiation derived from Nimbus 7 Earth radiation budget data set,	[NASA-CP-3152-PT-2] p 18 N92-27788	[NASA-RP-1124-REV-2] p 21 N91-14437 CAPONE, FRANCIS J.
November 1985 to October 1987	BRODY, ADAM R.	Aeropropulsive characteristics of canted twin
(NASA-RP-1261) p 35 N91-24719	Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147	pitch-vectoring nozzles at Mach 0.20 to 1.20
BEZOS, GAUDY M.	•	[NASA-TP-3060] p.5 N91-22069
Wind tunnel aerodynamic characteristics of a	BROWN, JEFFREY C.	Parametric investigation of single-expansion-ramp
transport-type airfoil in a simulated heavy rain	Supersonic Throughflow Fan Test Facility at NASA. Lewis Research Center	nozzles at Mach numbers from 0 50 to 1 20
environment	[NASA-TP-3038] p 13 N92-31640	[NASA-TP-3240] p 9 N92-34193
[NASA-TP-3184] p.8 N92-31532 BILLINGS, C. E.	BROWNLEE, D.	CARDEN, HUEY D. Free vibrations of thin-walled semicircular
The development of the NASA aviation safety reporting	Exobiology in Earth orbit. The results of science	graphite-epoxy composite frames
system	workshoos held at NASA, Ames Research Center	[NASA-TP-3010] p 29 N91-13750
[NASA-RP-1114] p 10 N91-70436	[NASA-SP-500] p 41 N91-14725	Failure behavior of generic metallic and composite
BINDSCHADLER, ROBERT A.	BRUCKER, G. J.	aircraft structural components under crash loads
West Antarctic Ice Sheet Initiative. Volume 1: Science	Shortcomings in ground testing environment	[NASA-RP-1239] p 29 N91-13751
and Implementation Plan	simulations, and performance predictions for space	Effect of crash pulse shape on seat stroke requirements
[NASA-CP-3115-VOL-1] p 32 N91-20541 West Antarctic Ice Sheet Initiative, Volume 2: Discipline	applications	for limiting loads on occupants of aircraft [NASA-TP-3126] p 30 N92-18053
Raviews	[NASA-TP-3217] p 23 N92-22593	CARLSON, HARRY W.
[NASA-CP-3115-VOL-2] p 32 N91-26573	BRYSON, CRAIG C.	Survey and analysis of research on supersonic
BIRCKELBAW, L. D.	Second Conference on NDE for Aerospace	drag-due-to-lift minimization with recommendations for
NASA Workshop on future directions in surface modeling	Requirements [NASA-CP-3091] p 16 N91-18189	wing design
and grid generation		INASA-TP-3202 p 9 N92-33656
[NASA-CP-10092] p 8 N92-29625	BULLOCK, ELLEN PARKER	CARLSON, JOHN R.
BISHOP, PHILLIP	Span reduction effects on the flutter characteristics of arrow-wing supersonic transport configurations	A nozzle internal performance prediction method
Techniques for determination of impact forces during walking and running in a zero-G environment	[NASA-TP-3077] p 11 N91-21127	[NASA-TP-3221] p 8 N92-33625 CARPENTER, M. H.
(NASA-TP-3159) p 38 N92-17022	BUNDICK, W. THOMAS	Direct simulation of high-speed mixing layers
BLAIR, A. B., JR.	Development of an adaptive failure detection and	[NASA-TP-3186] p.8 N92-30909
Evaluation of a technique to generate artificially	identification system for detecting aircraft control element	CARROLL, M. A.
thickened boundary layers in supersonic and hypersonic	failures	The atmospheric effects of stratospheric aircraft. A
flows	[NASA-TP-3051] p 12 N91-25151	current consensus
(NASA-TP-3142) p 6 N91-28136	BURKHARDT, R.	[NACA-RP-1251] p 33 N91-16467
BLANCHARD, ROBERT C. The High Resolution Accelerometer Package (HiRAP)	Cable compliance	CARSON, GEORGE T., JR. Aeropropulsive characteristics of canted twin
flight experiment summary for the first 10 flights	(NASA-TP-3216) p 24 N92-30378	pitch-vectoring nozzies at Mach 0 20 to 1 20
[NASA-RP-1267] p 3 N92-22505	BURLEY, JAMES R., II	[NASA-TP-3060] p.5 N91-22069
BOHON, HERMAN L	Parametric study of aftert ody/nozzle drag on twin	Static internal performance of ventral and rear nozzle
Eighth DOD/NASA/FAA Conference on Fibrous	two-dimensional convergent-divergent nozzles at Mech	concepts for short-takeoff and vertical-landing aircraft
Composites in Structural Design, part 1	numbers from 0.60 to 1.20 [NASA-TP-2640] p.4 N91-14316	[NASA-TP-3103] p.6 N92-10975
[NASA-CP-3087-PT-1] p 22 N92-32513	•	Effect of afterbody geometry on aerodynamic
Eighth DOD/NASA/FAA Conterence on Fibrous Composites in Structural Design, part 2	BURNEY, LEWIS G.	characteristics of isolated nonaxisymmetric afterbodies at
(NASA-CP-3087-PT-2) p 22 N92-32574	Venturi air-jet vacuum ejectors for high-volume atmospheric sampling on aircraft platforms	transonic Mach numbers [NASA-TP-3236] p 9 N92-33706
BONHAUS, DARYL L.	[NASA-TP-3183] p 11 N92-20546	CAZIER, F. W., JR.
Relative efficiency and accuracy of two Navier-Stokes	BURNS, KAREN S.	Space Transportation Materials and Structures
codes for simulating attached transonic flow over wings	An investigation of microstructural characteristics of	Technology Workshop Volume 1 Executive summary
{NASA-TP-3061} p 26 N91-17310	contact-lens polymers	[NASA-CP-3148-VOL-1] p 15 N92-22660
BOWLES, ROLAND L.	[NASA-TP-3034] p 21 N91-13492	CHAMIS, CHRISTOS C.
Airborne Wind Shear Detection and Warning Systems	BUSH, KATHRYN A.	Computational Structures Technology for Airframes and
Second Combined Manufacturers' and Technologists' Conference, part 1	Mission description and in-flight operations of ERBE	Propulsion Systems
[NASA-CP-10050-PT-1] p 9 N91-11682	instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986	[NASA-CP-3142] p 31 N92-25911
Airborne Wind Shear Detection and Warning Systems.	[NASA-RP-1256] p.32 N92-10208	CHANG, BC. On the formulation of a minimal uncertainty model for
Second Combined Manufacturers' and Technologists'	Mission description and in-flight operations of ERBE	robust control with structured uncertainty
Conference, part 2	instruments on ERBS, NOAA 9, and NOAA 10	[NASA-TP-3094] p 13 N92-10027
[NASA-CP-10050-PT-2] p 9 N91-11695	spacecraft	CHANG, CHAU-LYAN
Airborne Wind Shear Detection and Warning Systems:	[NASA-RP-1279] p 32 N92-32127	Validation of three-dimensional incompressible spatial
Third Combined Manufacturers' and Technologists'	BUSQUETS, ANTHONY M.	direct numerical simulation code. A comparison with linear
Conference, part 2	Effect of short-term exposure to stereoscopic	stability and parabolic stability equation theories for
[NASA-CP-10060-PT-2] p 9 N91-24140	three-dimensional flight displays on real-world depth	boundary-layer transition on a flat plate
Airborne Wind Shear Detection and Warning Systems: Third Combined Manufacturers' and Technologists'	perception [NASA-TP-3117] p 11 N92-13065	[NASA-TP-3205] p.8 N92-30295
Conference, part 1		CHANG, I-CHUNG
[NASA-CP-10060-PT-1] p.9 N91-24166	BUTLER, RICKY W. NASA Formal Methods Workshop, 1990	Transonic flow analysis for rotors Part 3. Three-dimensional, quasi-steady, Euler calculation.
BOZZOLO, GUILLERMO	[NASA-CP-10052] p 42 N91-17559	[NASA-TP-2375] p.3 N91-10007
Equivalent crystal theory of alloys	BUTTERFIELD, ANSEL J.	CHEANEY, E. S.
[NASA-TP-3155] p 23 N91-30318	Benefits from synergies and advanced technologies for	The development of the NASA aviation safety reporting
BRECKENRIDGE, ROGER A.	an advanced-technology space station	system
Technology for the Future: In-Space Technology	[NASA-TP-3067] p 14 N91-20177	(NASA-RP-1114) p.10 N91-70436
Experiments Program, part 1	BYRD, JAMES E.	CHOO, Y. K.
[NASA-CP-10073-PT-1] p 14 N91-27177	Influence of airfoil geometry on delta wing leading-edge	NASA Workshop on future directions in surface modeling
Technology for the Future. In-Space Technology Experiments Program, part 2	vortices and vortex-induced aerodynamics at supersonic speeds	and grid generation {NASA-CP-10092} p.8 N92-29625
Experiments Program, part 2 [NASA-CP-10073-PT-2] p 14 N91-27178	{NASA-TP-3105} p 7 N92-20038	CHU, JULIO
BRENNER, M. J.	BZIK, SARA E.	Effects of yaw angle and Reynolds number on
Development of an integrated seroservoelastic analysis	Fourth Symposium or Chemical Evolution and the Origin	rectangular-box cavities at subsonic and transonic
program and correlation with test data	and Evolution of Life	speeds
[NASA-TP-3120] p.2 N91-26113	[NASA-CP-3129] p.41 N92-13588	[NASA-TP-3099] p.5 N91-27124

CACE A data consis grado	Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186	DOW, MARVIN B. Properties of three graphite/foughened resin
SAGE 1 data user's guide [NASA-RP-1275] p 34 N92-33097	Track structure model of cell damage in space flight	composites
CHUANG, SHERRY L.	[NASA-TP-3235] p 39 N92-34154	[NASA-TP-3102] p.21 N92-10067
The effects of video compression on acceptability of images for monitoring life sciences experiments	CULBERT, CHRISTOPHER J. Second CLIPS Conference Proceedings, volume 1	DREHER, P. E. Long-term orbital lifetime predictions
[NASA-TP-3239] p 16 N92-33933	[NASA-CP-10085-VOL-1] p 42 N92-16568	[NASA-TP-3058] p.13 N91-10092
CHUN, SANG Y.	Second CLIPS Conference Proceedings, volume 2 [NASA-CP-10085-VOL-2] p 42 N92-16590	DRUMMOND, J. PHILIP
HZETRN: A heavy ion/nucleon transport code for space	CUNNAN, WALTER S.	Two-dimensional stability of laminar flames [NASA-TP-3131] p.7 N92-17131
radiations [NASA-TP-3146] p.51 N92-15959	Supersonic Throughflow Fan Test Facility at NASA	Direct simulation of high-speed mixing layers
CLARK, JOHN S.	Lewis Research Center (NASA-TP-3038) p.13 N92-31640	[NASA-TP-3186] p.8 N92-30909
Nuclear Thermal Propulsion: A Joint NASA/DOE/DOD Workshop	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DUKE, EUGENE L. Application and flight test of linearizing transformations
[NASA-CP-10079] p 20 N92-11088	D	using measurement feedback to the nonlinear control
CLARK, LENWOOD G.		problem
Technology for the Future In-Space Technology Experiments Program, part 1	DANFORD, M. D. Electrochemical studies of corrosion inhibitors	[NASA-TP-3154] p 12 N91-30154 DUNBAR, BONNIE J.
[NASA-CP-10073-PT-1] p 14 N91-27177	[NASA-TP-3066] p 22 N91-17208	The microgravity environment of the Space Shuttle
Technology for the Future: In-Space Technology	The interaction of hydrogen with metal alloys	Columbia middeck during STS-32 [NASA-TP-3140] p 48 N92-11930
Experiments Program, part 2 [NASA-CP-10073-PT-2] p 14 N91-27178	(NASA-TP-3128) p 23 N91-29318 DARDEN, CHRISTINE M.	The microgravity environment of the Space Shuttle
CLARK, RONALD K.	High-Speed Research: Sonic Boom, volume 1	Columbia payload bay during STS-32
Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo	[NASA-CP-3172] p 11 N92-33874 DAVIS. D. O.	[NASA-TP-3141] p 49 N92-11931 DUNHAM, J. R.
Intermetallic alloy [NASA-TP-3044] p 22 N91-13522	Evaluation of a technique to generate artificially	NASA-LaRc Flight-Critical Digital Systems Technology
Surface effects on hydrogen permeation through	thickened boundary layers in supersonic and hypersonic	Workshop
Ti-14Ai-21Nb alloy	flows [NASA-TP-3142] p.6 N91-28136	[NASA-CP-10028] p.11 N91-24200 DUNHAM, R. EARL, JR.
[NASA-TP-3109] p 23 N91-20266	DAVIS, RICHARD E.	Wind tunnel aerodynamic characteristics of a
COLLIER, LISA D. Technology for the Future. In-Space Technology	Evaluation of cloud detection instruments and	transport-type airfoid in a simulated heavy rain environment
Experiments Program, part 1	performance of laminar-flow leading-edge test articles during NASA Leading-Edge Flight-Test Program	[NASA-TP-3184] p.8 N92-31532
[NASA-CP-10073-PT-1] p 14 N91-27177 Technology for the Future In-Space Technology	[NASA-TP-2888] p 11 N91-24199	DURICY, JAMES A.
Experiments Program, part 2	DAVIS, WILLIAM T. Packaging, development, and on-orbit assembly options	Rigid-body-control subsystem sizing for an Earth science geostationary platform
[NASA-CP-10073-PT-2] p 14 N91-27178	for large geostationary spacecraft	[NASA-TP-3087] p 17 N91-22302
COOK, GEORGE E. A generalized method for multiple robotic manipulator	[NASA-TP-3088] p 17 N91-27182	<u>_</u>
programming applied to vertical-up welding	DAWICKE, D. S. Analysis and prediction of Multiple-Site Damage (MSD)	E
[NASA-TP-3163] p 24 N92-11218	fatigue crack growth	PPTFM1148. 18P
COSGROVE, PATRICK A. Thermal-distortion analysis of a spacecraft box truss in	[NASA-TP-3231] p 31 N92-31279	EFTEKHARI, ABE An investigation of microstructural characteristics of
geostationary orbit	DAWSON, RONALD A. Supersonic Throughflow Fan Test Facility at NASA.	contact-lens polymers
[NASA-TP-3054] p 16 N91-11041 COSTEN, ROBERT C.	Lewis Research Center	[NASA-TP-3034] p.21 N91-13492 Investigation of microstructural changes in
inertial oscillation of a vertical rotating draft with	[NASA-TP-3038] p 13 N92-31640 DAWSON, VIRGINIA PARKER	polyetherether-ketone films at cryogenic temperatures by
application to a supercell storm	Engines and innovation: Lewis Laboratory and American	positron lifetime spectroscopy
[NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with	propulsion technology	[NASA-TP-3064] p 21 N91-18216 Low-energy positron flux generator for microstructural
application to a superce! storm: Video supplement to	[NASA-SP-4306] p 51 N91-15975 DECKER, HARRY J.	characterization of thin films
NASA Technical Paper 3230 [NASA-TP-3230-VIDEO-SUPPL] p 36 N92-34246	Development of a full-scale transmission testing	[NASA-TP-3074] p 27 N91-22538 Positron lifetime measurements in chiral nematic liquid
CRIM, G.	procedure to evaluate advanced lubricants {NASA-TP-3265} p.28 N92-30396	crystals
NASA-LaRc Flight-Critical Digital Systems Technology	DEFREES, D.	[NASA-TP-3122] p 46 N92-10677
Workshop		EKLUND, W.
	Exobiology in Earth orbit: The results of science	Cable compliance
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A.	workshops held at NASA, Ames Research Center	Cable compliance [NASA-TP-9216] p 24 N92-30378
[NASA-CP-10028] p.11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several		[NASA-TP-9216] p 24 N92-30378 ELLIS, STEPHEN R.
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T.	INASA-TP-3216} p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E.
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I.	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA RP-1279] p 32 N92-32127	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-dimensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA RP-1279] p 32 N92-72127 DEMORE, W. B.	INASA-TP-3216} p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E.
NASA-CP-10028 p 11 N91-24200	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA RP-1279] p 32 N92-32127	INASA-TP-3216} p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994
[NASA-CP-10028] p 11 N91-24200 CROWELL CYNTHIA A. Two-dimensional aerodynamic characteristics of several polygon-shapped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA RP-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467	INASA-TP-3216] p. 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p. 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds
NASA-CP-10028 p 11 N91-24200	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus	INASA-TP-3216] p. 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p. 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing volicios at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p. 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p. 6 N92-14968
NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-323] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttlin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA 9P-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L.
NASA-CP-10028 p 11 N91-24200	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA RP-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA	INASA-TP-3216] p. 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p. 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing volicios at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p. 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p. 6 N92-14968
NASA-CP-10028 p 11 N91-24200	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA 9P-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender angly voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-311] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-2995] ERLEBACHER, GORDON
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBAGE, JAMES M. A parametric experimental investigation of a scramjet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation.	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanium Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L.	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, CARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A.	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-137] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions (NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars	INASA-TP-2316] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10058] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3114] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-2955] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175
NASA-CP-10028 p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttlin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBAGE, JAMES M. A parametric experimental investigation of a scramjet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanium Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L.	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, CARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B.
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A.	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENINS, BRIAN The Compton Observatory Science Workshop [NASA-CP-137] p 49 N92-21874 DESILVA, SHANAKA Volcanisin Climate Interactions (NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training	INASA-TP-2316] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10058] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3114] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-2955] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttlin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBAGE, JAMES M. A parametric experimental investigation of a scramjet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAN, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanisin Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B.	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-395] p 5 N91-19058 ERIEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-thrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays	workshops held at NASA, Ames Research Center [NASA-SP-500] p. 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p. 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p. 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-137] p. 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p. 34 N91-21641 DEVINCENZI, D. L Exobiology on Mars [NASA-CP-10055] p. 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p. 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, CARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12/94 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14/968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-395] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBACE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3050] p 50 N91-16981 [MSA-TP-3050] p 50 N91-16981	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-72127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures	INASA-TP-2316] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10058] p 13 N91-20147 ERICKSON, CARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3114] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-3955] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-thrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3050] p 50 N91-16981 Improvements in computational accuracy of BRYNTRN (a baryon transport code)	workshops held at NASA, Ames Research Center [NASA-SP-500] p. 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p. 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p. 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-137] p. 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p. 34 N91-21641 DEVINCENZI, D. L Exobiology on Mars [NASA-CP-10055] p. 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p. 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss	INASA-TP-2916] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10058] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voxicios at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-395] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-chrmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBBACE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3050] p 50 N91-16981 [MSA-TP-3050] p 50 N91-16981	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August -	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind turnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind turnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-395] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p 50 N91-16981 Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Radiation risk predictions for Space Station Freedom orbits	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-72127 DEMORE, W. B. The atmosphenic effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12/94 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-12/94 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-3119] p 5 N91-19058 ERLERACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1296] p 20 N91-10127 FARMER, JEFFERY T. Thermal-distortion analysis of a spacecraft box truss in geostationary orbit
NASA-CP-10028 p 11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages NASA-TP-3233 p 8 N92-30394	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-RP-1251] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-RP-1398] p 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 DOUGLASS, A. R.	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind turnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind turnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-395] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3095] p 50 N91-16981 [NASA-TP-3093] p 51 N91-23017 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 Analyses of risks associated with radiation exposure from past major solar particle events	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-72127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August December 1990 [NASA-RP-1264] p 35 N91-26651 DOUGLASS, A. R. The atmospheric effects of stratospheric aircraft: A	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, CARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12/94 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-12/94 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-3111] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 F FARMER, JEFFERY T. Thermal-distortion analysis of a spacecraft box truss in geostationary orbit [NASA-TP-3054] p 16 N91-11041 On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna
NASA-CP-10028 p 11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages NASA-TP-3233 p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttle 2 launch system architecture (NASA-TP-3059 p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings NASA-TP-3173 p 21 N92-20679 CUBBAGE, JAMES M. A parametric experimental investigation of a scramjet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation (NASA-TP-3048) p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations NASA-TP-3026 p 46 N91-13965 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays NASA-TP-3050 p 50 N91-16981 mprovements in computational accuracy of BRYNTRN (a baryon transport code) NASA-TP-3093 p 51 N91-23017 Radigition risk predictions for Space Station Freedom orbits NASA-TP-3098 p 51 N91-26107 Analyses of risks associated with radiation exposure from past major solar particle events N91-31061	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-RP-1251] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-RP-1398] p 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p 35 N91-26651 DOUGLASS, A. R.	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voluces at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-2995] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 F FARMER, JEFFERY T. Thermal-distortion enalysis of a spacecraft box truss in geostationary orbit [NASA-TP-3054] p 16 N91-11041 On-orbit structural dynamic performance of a 15-meter
[NASA-CP-10028] p 11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages [NASA-TP-3233] p 8 N92-30394 CRUZ, CHRISTOPHER I. Parametric trade studies on a Shuttin 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 CRUZ, JUAN R. Optimization of composite sandwich cover panels subjected to compressive loadings [NASA-TP-3173] p 21 N92-20679 CUBAGE, JAMES M. A parametric experimental investigation of a scramfet nozzle at Mach 6 with Freon and argon or air used for exhaust simulation [NASA-TP-3048] p 4 N91-16990 CUCINOTTA, FRANCIS A. Inclusive inelastic scattering of heavy ions and nuclear correlations [NASA-TP-3026] p 46 N91-13985 Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3095] p 50 N91-16981 [NASA-TP-3093] p 51 N91-23017 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 Analyses of risks associated with radiation exposure from past major solar particle events	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725 DEGNAM, KEITH T. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p 32 N92-72127 DEMORE, W. B. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-CP-3137] p 49 N92-21874 DESILVA, SHANAKA Volcanism Climate Interactions [NASA-CP-10062] p 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars [NASA-CP-10055] p 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-TP-3198] p 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August December 1990 [NASA-RP-1264] p 35 N91-26651 DOUGLASS, A. R. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p 33 N91-16487 DOUGLASS, ANNE R.	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, CARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicious at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-395] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 FARMER, JEFFERY T. Thermal-distortion analysis of a spacecraft box truss in geostationary orbit [NASA-TP-3054] p 16 N91-11041 On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 FASANELLA, EDWIN L. Determination of the flight hardware configuration of an
NASA-CP-10028 p 11 N91-24200 CROWELL, CYNTHIA A. Two-thmensional aerodynamic characteristics of several polygon-shaped cross-sectional models applicable to helicopter fuselages NASA-TP-3233 p 8 N92-30394	workshops held at NASA, Ames Research Center [NASA-SP-500] p. 41 N91-14725 DEGNAM, KETHT. Mission description and in-flight operations of ERBE instruments on ERBS. NOAA 9, and NOAA 10 spacecraft [NASA-RP-1279] p. 32 N92-32127 DEMORE, W. 8. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p. 33 N91-16467 DENNIS, BRIAN The Compton Observatory Science Workshop [NASA-RP-1251] p. 49 N92-21874 DENINS, BRIAN Volcanism Climate Interactions [NASA-CP-10062] p. 34 N91-21641 DEVINCENZI, D. L. Exobiology on Mars [NASA-CP-10055] p. 41 N91-15691 DILLARD, RICHARD B. Reliability training [NASA-RP-1253] p. 15 N92-32456 DOGGETT, WILLIAM R. Software design for automated assembly of truss structures [NASA-TP-3198] p. 43 N92-28375 DOIRON, SCOTT D. Nimbus-7 TOMS Antarctic ozone atlas: August - December 1990 [NASA-RP-1264] p. 35 N91-26651 DOUGLASS, A. R. The atmospheric effects of stratospheric aircraft: A current consensus [NASA-RP-1251] p. 33 N91-16487	INASA-TP-3216] p 24 N92-30378 ELLIS, STEPHEN R. Manual Control Aspects of Orbital Flight [NASA-CP-10056] p 13 N91-20147 ERICKSON, GARY E. Wind tunnel investigation of the interaction and breakdown characteristics of siender wing voicible at subsonic, transonic, and supersonic speeds [NASA-TP-3114] p 6 N92-12994 Wind tunnel investigation of vortex flows on F/A-18 configuration at subsonic through transonic speed [NASA-TP-3111] p 6 N92-14968 ERICKSON, LARRY L. Panel methods: An introduction [NASA-TP-3595] p 5 N91-19058 ERLEBACHER, GORDON A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ESGAR, JACK B. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 F FARMER, JEFFERY T. Thermal-distortion enalysis of a spacecraft box truss in geostationary orbit [NASA-TP-3054] p 16 N91-11041 On-orbit structural dynamic performance of a 15-meter microwave radiometer antenna [NASA-TP-3041] p 16 N91-17114 FASANELLA, EDWIN L.

Analyses of risks associated with radiation exposure from past major solar particle events [NASA-TP-3137] p.50 N91-31061

CONCRET ME LINE LAND	CARRICON MANSE	GREELEY, RONALD
FEREBEE, MELVIN J., JR.	GARRISON, JAMES L. Launch vehicle integration options for a large Earth.	Sand and Dust on Mars
Benefits from synergies and advanced technologies for	sciences geostationary platform concept	[NASA-CP-10074] p.50 N91-27057
an advanced-technology space station	[NASA-TP-3083] p 15 N91-27180	GREEN, LAWRENCE L
[NASA-TP-3067] p 14 N91-20177		Wall-interference assessment and corrections for
FERNANDEZ, KENNETH R.	GARY, J. PATRICK	
A generalized method for multiple robotic manipulator	Proceedings of the Second Annual NASA Science	transonic NACA 0012 airfoil data from various wind
programming applied to vertical-up welding	Internet User Working Group Confunence	turinets
[NASA-TP-3163] p 24 N92-11218	[NASA-CP-3117] p 48 N91-27009	[NASA-TP-3070] p.5 N91 20043
FERRAINOLO, JOHN J.	GARZON, SHERRY B.	GREENE, FRANCIS A.
Large space structures and systems in the space station	Eighth DOD/NASA/FAA Conference on Fibrous	An upwind-biased space marching algorithm for
era. A hibliography with indexes	Composites in Structural Design, part 1	supersonic viscous flow
[NASA-SP-7085(01)] p 17 N91-18199	(NASA-CP-3087-PT-1) p 22 N92-32513	[NASA-TP-3068] 0.26 N91 18381
Large space structures and systems in the space station	Eighth DOD/NASA/FAA Conference on Fibrous	Numerical analysis and simulation of an assured crew
era. A bibliography with indexes	Composites in Structural Design, part 2	return vehicle flow field
[NASA-SP-7085(02)] p 18 N91-28191	(NASA-CP-3087-PT-2) p 22 N92-32574	[NASA-TP-3101] p 26 N92-10161
FERRANTE, JOHN	GATLIN, GREGORY M.	GREENISEN, MICHAEL
Equivalent crystal theory of alloys	Low-speed, powered ground effects of a generic.	Techniques for determination of impact forces during
[NASA-TP-3155] p 23 N91-30318	hypersonic configuration	walking and running in a zero-G environment
FIELDS, ROGER A.	[NASA-TP-3092] p.5 N91 25103	[NASA-TP-3159] p 38 N92 17022
Thermal and structural tests of Rene 41 honeycomb	GEHRELS, NEIL	GREENISEN, MICHAEL C.
integral-tank concept for future space transportation	The Compton Observatory Science Workshop	A method of evaluating efficiency during space suited
systems	[NASA-CP-3137] p 49 N92 21874	work in a neutral buoyancy environment
[NASA-TP-3145] p 30 N92-24205	GELDER, THOMAS F.	[NASA-TP-3153] p.40 N92 19772
FISCHL, ROBERT	Design and performance of controlled-diffusion stator	GROOM, NELSON J.
On the formulation of a minimal uncertainty model for	compared with original double-circular-arc stator	Aerospace Applications of Magnetic Suspension
robust control with structured uncertainty	[NASA-TP-2852] p 12 N92-22863	Technology, part 1
[NASA-TP-3094] p 13 N92-10027	GENTRY, GARL L., JR.	[NASA-CP-10066-PT-1] p.17 N91-21188
FISHER, DAVID F.	Wind tunnel aerodynamic characteristics of a	Aerospace Applications of Magnetic Suspension
Evaluation of cloud detection instruments and	transport-type airfoil in a simulated heavy rain	Technology, part 2
perform noe of laminar-flow leading-edge test articles	environment	[NASA-CP-10066-PT-2] p.17 N91-21203
during NASA Leading-Edge Flight-Test Program	[NASA-TP-3184] p.8 N92-31532	International Symposium on Magnetic Suspension
[NASA-TP-2888] p 11 N91-24199	GHOSH, DAVE	Fechnology, part 1
FITE, E. BRIAN	Ongoing Progress in Spacecraft Controls	[NASA-CP-3152-PT 1] p 18 N92 27721
A three-dimensional finite-element thermal/mechanical	[NASA-CP-10099] p 19 N92-28730	International Symposium on Magnetic Suspension
analytical technique for high-performance traveling wave	GIARRATANO, JOSEPH	Technology, part 2
tubes	Second CLIPS Conference Proceedings, volume 1	[NASA-CP-3152-PT-2] p.18 N92-27788
[NASA-TP-3081] p 25 N91-27436	INASA-CP-10085-VOL-11 p 42 N92-16568	GROVEMAN, BRIAN
FLANEGAN, MARK	Second CLIPS Conference Proceedings, volume 2	
Small Explorer Data System MIL-STD-1773 fiber optic	[NASA-CP-10085-VOL-2] p 42 N92-16590	User's guide Nimbus-7 Earth radiation budget
bus	GIBB, JOHN	narrow-field-of-view products. Scene radiance tape
[NASA-TP-3227] p 16 N92-26667	MILSTAR's flexible substrate solar array Lessons	products, sorting into angular bins products, and maximum
FLOM, YURY	·	likelihood cloud estimation products
AMSAHTS 1990 Advances in Materials Science and	tearned, addendum	(NASA-RP-1246) p 34 N91 13043
Applications of High Temperature Superconductors	[NASA-CP-3147-ADD] p 33 N92-26895	GUIMARAES, PATRICIA T.
[NASA-CP-3100] p 22 N92-21605	GIESECKE, ROBERT L	Nimbus-7 TOMS Antarctic ozone atlas August -
FOLEY, ROBERT J.	The microgravity environment of the Space Shuttle	December 1990
	Columbia payload bay during STS-32	[NASA-RP-1264] p.35 N91 26651
Static thrust-vectoring performance of nonaxisymmetric	[NASA-TP-3141] p 49 N92-11931	GUPTA, K. K.
convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p.5 N91-21059	GILBERT, JOHN H.	Development of an integrated aeroservoelastic analysis
	A method of evaluating efficiency during space suited	program and cometation with test data
FORREST, DANA K. Measurements of forces, moments, and pressures on	work in a neutral buoyancy environment	[NASA-TP-3120] p.2 N91-26*13
	(NASA-TP-3153) p 40 N92-19772	GUPTA, ROOP N.
a generic store separating from a box cavity at supersonic	GLOSS, BLAIR B.	Calculations and curve fits of thermodynamic and
speeds [NASA-TP-3110] p.6 N92-10005	Longitudinal serodynamic characteristics of a subsonic.	transport properties for equilibrium air to 30000 K
FOUGHNER, JEROME T., JR.	energy-efficient transport configuration in the National	[NASA-RP-1260] p.26 N92-11285
Transonic Symposium. Theory, Application and	Transonic Facility	Stagnation-point heat-transfer rate predictions at
Experiment, volume 2	[NASA-TP-2922] p.6 N91-28143	aeroassist flight conditions
[NASA-CP-3020-VOL-2] p 5 N91-24132	GODBOLD, JOHN A.	[NASA-TP-3208] p.27 N92-31281
FREY, RICHARD	Payload bay doors and radiator panels familiarization	(
User's guide. Nimbus-7 Earth radiation budget	handbook	
narrow-field-of-view products. Scene radiance tape	[NASA-TM-107793] p 15 N92-20676	H
products, sorting into angular bins products, and maximum	GOLDHIRSH, JULIUS	• •
likelihood cloud estimation products	Propagation effects for land mobile satellite systems	HABERLE, ROBERT M.
[NASA-RP-1246] p 34 N91-13043	Overview of experimental and modeling results	Sand and Dust on Mars
FRIES. SYLVIA DOUGHTY	[NASA-RP-1274] p 25 N92-20404	[NASA-CP-10074] p.50 N91-27057
NASA engineers and the age of Apollo	GOLDMAN, LOUIS J.	HAHNE, DAVID E.
(NASA-SP-4104) p 52 N92-28344	Three-component laser anemometer measurement	· · · · · · · · · · · · · · · · · · ·
FRONEK, DENNIS L.	systems [NASA/TP:30001 p.5 N91/19057	Fulf-scale semispan tests of a business jet wing with a natural faminar flow girloil
Supersonic Throughflow Fan Test Facility at NASA.	Laser anemometer measurements and computations in	[NASA-TP-3133] p.6 N91-30098
Lewis Research Center	an annular cascade of high turning core turbine values	
[NASA-TP-3038] p 13 N92-31640	[NASA-TP-3252] p.8 N92-28980	Wind-tunnel static and free-flight investigation of
(1000 to 1000) p 10 1132 01040	GONG, LESLIE	high-angle-of-attack stability and control characteristics of
^	Thermal and structural tests of Rene 41 honeycomb	a model of the EA-6B sirplane
G	integral-tank concept for future space transportation	[NASA-TP-3194] p 7 N92-25276
	**************************************	HAINES, RICHARD F.
GANAPOL, BARRY D.		The effects of video compression on acceptability of
	systems	
Benchmark solutions for the galactic heavy-ion transport	systems {NASA-FP-3145} p.30 N92-24205	images for monitoring life sciences experiments
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M.	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933
	systems {NASA-IP-3145} p.30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J.
equations with energy and spatial coupling	systems [NASA-FP-3145] p.30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92:33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures	systems {NASA-FP-3145} GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J.
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E.	systems [NASA-IP-3145] p 30 N92-24205 [GODDSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 [GOUGEON, MEADE	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92:33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures	systems {NASA-IP-3145} GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-IP-3156] GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy	images for monitoring life sciences experiments (NASA-TP-3239) p.16 N92:33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication (NASA-RP-1255) p.28 N91:30531 HAN, DAESOO
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop. Volume 1: Executive summary	systems [NASA-FP-3145] p.30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6 N92-10011 GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy composite material	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.28 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop, Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E.	systems [NASA-IP-3145] p 30 N92-24205 [GODDSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-IP-3156] p 6 N92-10011 [GOUGEON, MEADE] Structural properties of laminated Douglas fir/epoxy composite material [NASA-IRP-1236] p 20 N91 10127	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.26 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop, Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-IP-3156] p 6 N92-10011 GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy composite material [NASA-IP-1236] p 20 N91 10127 GRAHAM, R. LYNN	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.28 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop, Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop, Update 1988, Standard Experiments in Engineering Materials Science and	systems {NASA-IP-3145} GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] GRAHAM, R. LYNN Experimental validation of clock synchronization	images for monitoring life sciences experiments [NASA:TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA:RP-1255] p.28 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92-22045 HANDSCHUH, ROBERT F.
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop, Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-IP-3156] p 6 N92-10011 GOUGEON, MEADE Structural properties of laminated Dougles fir/epoxy composite material [NASA-IP-1236] p 20 N91 10127 GRAHAM, R. LYNN Experimental validation of clock synchronization algorithms	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92:33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.26 N91:30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92:22045 HANDSCHUH, ROBERT F. A method for determining spiral-bevel gear tooth
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop, Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-IP-3156] p 6 N92-10011 GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy composite material [NASA-IP-1236] p 20 N91-10127 GRAHAM, R. LYNN Experimental validation of clock synchronization algorithms [NASA-IP-3209] p 42 N92-27589	images for monitoring life sciences experiments [NASA:TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA:RP-1255] p.28 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92-22045 HANDSCHUH, ROBERT F.
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 National Educators' Workshop: Update 1991 Standard	systems {NASA-IP-3145} GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-IP-3156] GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] GRAHAM, R. LYNN Experimental validation of clock synchronization algorithms [NASA-IP-3209] GRANTHAM, CAROLYN	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.28 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92-22045 HANDSCHUH, ROBERT F. A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p.28 N92-10195
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 National Educators' Workshop: Update 1991 Standard Experiments in Engineering Materials Science and	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 GOUGEON, MEADE Structural properties of laminated Douglas fir/apoxy composite material [NASA-RP-1236] p 20 N91 10127 GRAHAM, R. LYNN Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589 GRANTHAM, CAROLYN Software design for automated assembly of truss	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92:33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.28 N91:30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92:22045 HANDSCHUH, ROBERT F. A method for determining spiral bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p.28 N92:10195 HARDY, ALVA C.
equations with energy and spatial coupling [NASA-TP:3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop, Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 National Educators' Workshop: Update 1991 Standard Experiments in Engineering Materials Science and Technology	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 GOUGEON, MEADE Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p 20 N91-10127 GRAHAM, R. LYNN Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589 GRANTHAM, CAROLYN Software design for automated assembly of truss structures	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92-33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.28 N91-30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92-22045 HANDSCHUH, ROBERT F. A method for determining spiral-bevel gear tooth geometry for finite element analysis [NASA-TP-3096] p.28 N92-10195
equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 GARDNER, J. E. Space Transportation Materials and Structures Technology Workshop Volume 1: Executive summary [NASA-CP-3148-VOL-1] p 15 N92-22660 GARDNER, JAMES E. National Educators' Workshop: Update 1988 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3060] p 20 N91-20207 National Educators' Workshop: Update 1991 Standard Experiments in Engineering Materials Science and	systems [NASA-IP-3145] p 30 N92-24205 GOODSELL, AGA M. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 GOUGEON, MEADE Structural properties of laminated Douglas fir/apoxy composite material [NASA-RP-1236] p 20 N91 10127 GRAHAM, R. LYNN Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589 GRANTHAM, CAROLYN Software design for automated assembly of truss	images for monitoring life sciences experiments [NASA-TP-3239] p.16 N92:33933 HAMROCK, BERNARD J. Fundamentals of fluid lubrication [NASA-RP-1255] p.26 N91:30531 HAN, DAESOO Workshop on Squeezed States and Uncertainty Relations [NASA-CP-3135] p.46 N92:22045 HANDSCHUH, ROBERT F. A method for determining spiral bevel geal tooth geometry for finite element analysis [NASA-TP-3096] p.28 N92:10195 HARDY, ALVA C. Radiation insk predictions for Space Station Freedom

GRAVES, PHILIP C.

Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087

GARRETT, L BERNARD

Benefits from synergies and advanced technologies for an advanced-technology space station [NASA-TP-3067] p 14 N91-20177

HARDY, R.	HOLTON, J. R.	IVANCIC, WILLIAM D.
The development of the NASA aviation safety reporting	The atmospheric effects of stratospheric aircraft: A	Destination-directed, packet-switching architecture for
system	current consensus	30/20-GHz FDMA/TDM geostationary communications
[NASA-RP-1114] p 10 N91-70436	[NASA-RP-1251] p 33 N91-16467	satellite network
HARRIS, BERNARD A. Fuel utilization during exercise after 7 days of bed rest	HOPKINS, DALE A. Improved accuracy for finite element structural analysis	[NASA-TP-3201] p 16 N92-19762
[NASA-TP-3175] p 38 N92-16554	via a new integrated force method	•
Eccentric and concentric muscle performance following	[NASA-TP-3204] p 30 N92-22227	J
7 days of simulated weightlessness	Computational Structures Technology for Airtram/ and	
(NASA-TP-3182) p 39 N92-17645	Propulsion Systems	JACHIMOWSKI, CASIMIR J.
HARRIS, BERNARD A., JR.	(NASA-CP-3142) p 31 162-25911	An analysis of combustion studies in shock expansion tunnels and reflected shock tunnels
Workshop on Exercise Prescription for Long-Duration	HORACK, J. M. Development of the Burst are: Insent Source	[NASA-TP-3224] p 22 N92-26374
Space Flight p.36 N91-10574 p.36 N91-10574	Experiment (BATSE)	JACKSON, CHERYL C.
HARRIS, CHARLES E.	[NASA-RP-1268] p 49 N91-32006	Rigid-body-control subsystem sizing for an Earth science
The 1991 International Conference on Aging Aircraft and	HORNE, W. CLIFTON	geostationary platform
Structural Airworthiness	Acoustic and sero ynamic study of a pusher-propeller	[NASA-TP-3087] p 17 N91-22302
[NASA-CP-3160] p 31 N92-30106	aircraft model	JACKSON, KAREN E.
HARRIS, CHRIS J.	[NASA-TP-3040] p 45 N91-21828	Determination of the flight hardware configuration of an
Mission description and in-flight operations of ERBE	Aeroaccustic and aerodynamic applications of the theory	energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart
Instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986	of r inhulibrium thermodynamics (Naf i FP-3118) p.26 N91-25352	[NASA-TP-3084] p 29 N91-21556
[NASA-RP-1256] p 32 N92-10208	HORTA, LUCAS G.	JACKSON, LENORE A.
HASSON, SCOTT M.	identification of linear systems by an asymptotically	Proceedings of the Second Annual NASA Science
The validation of a human force model to predict dynamic	stable observer	Internet User Working Group Conference
forces resulting from multi-joint motions	[NASA-TP-3164] p 31 N92-26537	[NASA-CP-3117] p 48 N91-27009
(NASA-TP-3206) p 40 N92-26538	HOUSNER, JERROLD M.	JACKSON, M. M.
Correlation and prediction of dynamic human isolated	Computational Structures Technology for Airframes and	Responses of women to orthostatic and exercise stresses
joint strength from lean body mass {NASA-TP-3207} p.40 N92-26682	Propulsion Systems [NASA-CP-3142] p.31 N92-25911	[NASA-TP-3043] p 37 N91-19711
HATHAWAY, MICHAEL D.	[NASA-CP-3142] p 31 N92-25911 HOWE, JOHN T.	JACOBS, JAMES A.
Design and performance of controlled-diffusion stator	Hypervelocity atmospheric flight. Real gas flow fields	National Educators' Workshop: Update 1988: Standard
compared with original double-pircular-arc stator	[NASA-RP-1249] p 26 N91-20418	Experiments in Engineering Materials Science and
(NASA-TP-2852) p 12 N92-22863	HOWELL, WILLIAM E.	Technology
HAYES, JUDITH C.	Static footprint local forces, areas, and aspect ratios	[NASA-CP-3060] p 20 N91-20207
Eccentric and concentric muscle performance following	for three type 7 aircraft tires	National Educators' Workshop: Update 1991: Standard Experiments in Engineering Materials Science and
7 days of simulated weightlessness [NASA-TP-3182] p 39 N92-17645	[NASA-TP-2983] p 10 N91-17014	Technology
[NASA-TP-3182] p 39 N92-17646 HAYHURST, KELLY J.	HOWERTON, CLAYTON E. Mission description and in-flight operations of ERBE	[NASA-CP-3151] p 24 N92-30263
Structural factoring approach for analyzing stochastic	instruments on ERBS and NOAA 9 spacecraft, November	JACOBS, PETER F.
networks	1984 - January 1986	Longitudinal serodynamic characteristics of a subsonic.
[NASA-TP-3069] p 43 N91-18753	[NASA-RP-1256] p 32 N92-10208	energy-efficient transport configuration in the National
HAYS, RUSSELL D.	dission description and in-flight operations of ERBE	Transonic Facility [NASA-TP-2922] p.6 N91-28143
Reliability of a Shuttle reaction timer	instruments on ERBS, NOAA 9, and NOAA 10	[NASA-TP-2922] p.6 N91-28143 JACOBSON, NATHAN S.
[NASA-TP-3176] p 40 N92-16562	Spacecraft and an arrange and arrange arrange and arrange arrange and arrange arrange arrange and arrange	High-temperature durability considerations for HSCT
HERSTROM, CATHERINE L.	(NASA-RP-1279) p 32 N92-32127 HOWLETT, JAMES T.	combustor
Software design for automated assembly of truss structures	Calculation of unsteady transonic flows with mild	{NASA-TP-3162} p 23 N92-17070
[NASA-TP-3198] p 43 N92-28375	separation by viscous-inviscid interaction	JAMES, BENJAMIN B.
HILL, ACQUILLA 5.	[NASA-TP-3197] p.7 N92-28477	Multidisciplinary optimization of controlled space structures with global sensitivity equations
Calibration of the 13- by 13-inch adaptive wall test	HUBBARD, HARVEY H.	[NASA-TP-3130] p.18 N92-11087
section for the Langley 0.3-meter transonic cryogenic	Wind turbine acoustics	JAMES, ODETTE B.
tunnel (NASA-TP-3049) a 13 N91-13461	(NASA-TP-3057) p 44 N91-16679	Planetary geosciences, 1989-1990
[NASA-TP-3049] p 13 N91-13461 HILL EUGENE G.	Aeroacoustics of flight vehicles. Theory and practice.	[NASA-SP-508] p 50 N92-28345
Lewis icing research tunnel test of the aerodynamic	Volume 1: Noise sources {NASA-RP-1258-VOL-1} p.45 N92-10598	JEGLEY, DAWN C.
effects of aircraft ground deicing/anti-icing fluids	Aeroscoustics of flight vehicles. Theory and practice.	Compression behavior of graphite-thermoplastic and graphite-epoxy panels with circular holes or impact
[NASA-TP-3238] p 10 N92-30395	Volume 2: Noise control	damage
HILL, GERALD F.	[NASA-RP-1258-VOL-2] p 45 N92-14779	[NASA-TP-3071] p 21 N91-18215
Venturi air jet vacuum ejectors for high-volume	HUCEK, RICHARD R.	Effect of low-speed impact damage and damage locs 'on
atmospheric sampling on aircraft platforms	User's guide: Nimbus-7 Earth radiation budget	on behavior of composite panels
[NASA-TP-3183] p 11 N92-20546	narrow-field-of-view products. Scene radiance tape	[NASA-TP-3196] p 22 N92-23961 JOHNSON, R. L.
HINGST, W. R. Evaluation of a technique to generate artificially	products, sorting into angular bins products, and maximum likelihood cloud estimation products	Responses of women to orthostatic and exercise
thickened boundary layers in supersonic and hypersonic	[NASA-RP-1246] p 34 N9 i 13043	siresaes
flows	Atlas of the Earth's radiation budget as measured by	[NASA-TP-3043] p 37 N91-19711
[NASA-TP-3142] p.6 N91-28136	Nimbus-7. May 1979 to May 1980	JOHNSON, WALTER W.
HOADLEY, SHERWOOD TIFFANY	[NASA-RP-1263] p 35 N91-24720	Visually Guided Control of Movement [NASA-CP-3118] p.39 N92-21467
Physically weighted approximations of unsteady		[NASA-CP-3118] p 39 N92-21467 JOHNSTON, H. S.
aerodynamic forces using the minimum-state method [NASA-TP-3025] p.4 N91-18031	l l	The atmospheric effects of stratospheric excraft: A
HOBAN, FRANCIS T.	•	current consensus
Issues in NASA program and project management	IMPALINA W W	[NASA-RP-1251] p 33 N91-16467
[NASA-SP-6101(03)] p 46 N91-13347	IBRAHM, K. Y. Resource envelope co∴cepts for mission planning	JOHNSTON, HAROLD S.
Issues in NASA program and project management	[NASA-TP-3139] p 15 N91-29209	The atmospheric effects of stratospheric aircraft. A topical review.
[NASA-SP-6101(04)] p 46 N91-28026	INGRALDI, ANTHONY M.	[NASA-RP-1250] p 33 N91-16466
issues in NASA program and project management	installation effects of wing-mounted turbofan	JONES, J. H.
[NASA-SP-6101(05)] p 47 N92-27609	nacelle-pylons on & 1/17-scale, twin-engine, low-wing	Time-frequency representation of a highly nonstationary
HODGE, A. J. A novel method of testing the shear strength of thick	transport model	signal via the modified Wigner distribution
honeycomb composites	[NASA-TP-3168] p 7 N92-19002	[NASA-TP-3215] p 25 N92-20492 JONES, JIM J.
[NASA-TP-3108] p 21 N91-21242	IRVINE, W.	Stagnation-point heat-transfer rate predictions at
A statistical companson of two carbon fiber/epoxy	Exobiology in Earth orbit. The results of science workshops held at NASA Ames Research Center.	seroassist flight conditions
fabrication techniques	workshops held at NASA, Ames Research Center (NASA-SP-500) p 41 N91-14725	[NASA-TP-3208] p.27 N92-31281
[NASA-TP-3179] p 22 N92-20950	ISAKSEN, I. S. A.	JONES, LISA E.
HOFFLER, G. W.	The atmospheric effects of stratospheric aircraft. A	Determination of the flight hardware configuration of an
Responses of women to orthostatic and exercise stresses	Current consensus	energy absorbing attenuator for the proposed Space. Station crew and equipment translation aid cart.
[NASA-TP-3043] p 37 N91-19711	(NASA-RP-1251) p 33 N91-16467	[NASA-TP-3064] p 29 N91-21556
HOLLENBACH, DAVID J.	ISHAM, M. A.	JONG, J.
The Interstellar Medium in External Galaxies, Summanes	Gibbs free energy of reactions involving SiC, Si3N4, H2,	Time-frequency representation of a highly nonstationary
of contributed papers	and H2O as a function of temperature and pressure	signal via the modified Wigner distribution
[NASA-CP-3084] p 49 N91-14100	[NASA-TP-3275] p 23 N92-31278	[NASA-TP-3215] p 25 N92-20492

p.51 N92-15959

expert systems

INASA-TP-31611

p 20 N92-12052

JORDAN, FRANK L., JR.	KIM, KYUN Q.
Full-scale semispan tests of a business-jet wing with a	Computational methods for frictioniess contact with
natural laminer flow airfoil [NASA-TP-3133] p.6 N91-30098	application to Space Shuttle Orbiter nose gear tires {NASA-TP-3073} p.30 N91-22576
Wind-tunnel static and free-flight investigation of high-angle-of-attack stability and control characteristics of	KIM, Y. 5. Workshop on Squeezed States and Uncertainty
a model of the EA-68 airplane [NASA-TP-3194] p.7 N92-25276	Relations [NASA-CP-3135] p 46 N92 22045
JOSLIN, RONALD D. Validation of three-dimensional incompressible spatial	KING, CHARLES 8. Packaging, development, and on-orbit assembly options
direct numerical simulation code. A comparison with linear stability and parabolic stability aguation theories for	for large geostationary spacecraft [NASA-7P-3088] p.17 N91-27182
boundary-layer transition on a flat plate	KJELGAARD, SCOTT O.
[NASA-TP-3205] p 8 N92-30295 JUANG, JER-NAN	Detailed flow-field measurements over a 75 deg swept delta wing
identification of linear systems by an asymptotically stable observer	[NASA-TP-2997] p 4 N91-18030 KLEIN, H.
[NASA-TP-3164] p.31 N92-26537	Exobiology in Earth orbit. The results of science
JULIENNE, ALAIN J-85 jet engine noise measured in the ONERA S1 wind	workshops held at NASA, Ames Research Center [NASA-SP-500] p 41 N91-14725
tunnel and extrapolated to far field [NASA-TP-3053] p.45 N91-19823	KNOX, CHARLES E. Flight tests with a data link used for air traffic control
14	information exchange [NASA-TP-3135] p.11 N91-31143
K	KO, M. K. W.
KAISER, MARY K.	The atmospheric effects of stratospheric aircraft A current consensus
Visually Guided Control of Movement [NASA-CP-3118] p.39 N92-21467	[NASA-RP-1251] p 33 N91 16467 KO, MALCOLM K. W.
KARAMCHETI, KRISHNAMURTY Aeroacoustic and serodynamic applications of the theory	The atmospheric effects of stratospheric aircraft. A first program report.
of nonequilibrium thermodynamics	[NASA-RP-1272] p.33 N92-19121
[NASA-TP-3118] p 26 N91-25352 KARIYA, TIMMY T.	KORTE, JOHN J. An explicit upwind algorithm for solving the parabolized
Installation effects of wing-mounted turbofan	Navier-Stokes equations
nacelle-pytons on a 1/17-scale twin-engine, low-wing transport model	[NASA:TP-3050] p.4 N91:18032 KRANTZ, TIMOTHY L.
[NASA-TP-3168] p.7 N92-19002	Experimental and analytical evaluation of efficiency of
KARPEL, MORDECHAY Physically weighted approximations of unsteady	helicopter planetary stage [NASA-TP-3063] p. 28 N91-12956
aerodynamic forces using the minimum-state method [NASA TP-3025] p.4 N91:18031	KRISHEN, KUMAR
KASPER, HAROLD J.	Fifth Annual Workshop on Space Operations Applications and Research (SOAR 1991), volume 2
Graphite/epoxy composite adapters for the Space	[NASA-CP-3127-VOL-2] p.41 N92-22324
Shuttle/Centaur vehicle [NASA-TP-3014] p.15 N92-31251	KRUEGER, ARLIN J. Nimbus-7 TOMS Antarctic ozone atlas August -
KATZ, ROBERT	December 1990
Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays	[NASA-RP-1264] p 35 N91-26651 KUMAR, AJAY
[NASA-TP-3055] p 50 N91-16981	Direct simulation of high-speed mixing layers
Radiation risk predictions for Space Station Freedom orbits	[NASA-TP-9186] p.8 N92-30909 KYLE, M. LEE
(NASA-TP-3098) p.51 N91 26107 Track structure model of cell damage in space flight	User's guide Nimbus-7 Earth radiation budget
[NASA-TP-3235] p.39 N92-34154	narrow-field-of-view products. Scene radiance tape products, sorting into angular bins products, and maximum.
KEEL, WILLIAM C. Paired and interacting Galaxies International	hkelihood cloud estimation products (NASA-RP-1246) p 34 N91-13043
Astronomical Union Colloquium No. 124	Atlas of the Earth's rankation budget as measured by
[NASA-CP-3098] p.49 N91-16858	Nimbus-7 May 1979 to May 1980 [NASA-RP-1263] p 35 N91-24720
Span reduction effects on the flutter characteristics of	,
arrow-wing supersonic transport configurations {NASA-TP-3077} p 11 N91-21127	L
Planform curvature effects on flutter characteristics of	ARE VEN
a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14	LABEL, KEN Small Explorer Data System MIL-STD-1773 fiber optic
[NASA-TP-3116] p.11 N92-13054 KELLEY, HENRY L.	bus [NASA-TP-3227] p.16 N92-26667
Two-dimensional aerodynamic characteristics of several	LACH, CYNTHIA L.
polygon-shaped cross-sectional models applicable to helicopter fuselages	Effect of temperature and gap opening rate on the resiliency of candidate solid rocket booster O-ring
[NASA-TP-3233] p.8 N92-30394	materials [NASA-TP-3226] p.23 N92-27194
KENNEDY, LEWIS M. The 1990 NASA Aerospace Battery Workshop	LAKE, MARK S.
[NASA-CP-3119] p 20 N92-27130	Buckling and vibration analysis of a simply supported column with a piecewise constant cross section
KERLEY, J. Cable compliance	[NASA-TP-3090] p 29 N91-20503
[NASA-TP-3216] p 24 N92-30378	Stiffness and strength failuring in uniform space-filling fruss structures
KETELSEN, DEAN A. A new fabrication method for precision antenna	(NASA-TP-3210) p 30 N92-24546 LALLI, VINCENT R.
reflectors for space flight and ground test [NASA-TP-3078] p.17 N91-21185	Reliability training [NASA-RP-1253] p 15 N92-32456
KHAN, FERDOUS 8. Transport methods and interactions for space	LALLMAN, FREDERICK J. Control integration concept for hypersonic cruise-turn
radiations [NASA-RP-1257] p.51 N92-15956	maneuvers
KHANDELWAL, GOVIND S. Inclusive inelastic scattering of heavy ions and nuclear	[NASA-TP-3136] p.13 N92-20195 LAMKIN, STANLEY L. Reproport solutions for the delectic beaution transport
correlations	Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling
[NASA-TP-3026] p 46 N91-13965 Transport methods and interactions for space	[NASA-TP-3112] p. 44 N92-13756 HZETRN: A heavy ion/nucleon transport code for space
radiations	radiations

LANCE, D. G. An examination of the damage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) INASA TH-3160 D 21 N92 11142 LANDIS, GEOFFREY A Vision-21 Space Travel for the Next Millennium (NASA-CP-10059) p.13 N91 p 13 N91 22139 LANE, HELEN W Nutritional Requirements for Space Station Freedom Crews NASA-CP-3146 p.40 N92-25961 LANGEL, R. A. Types and Characteristics of Data for Geomagnetic Field Modeling [NASA-CP-3153] p.31 N92-28623 LANTZ, RICHARD L. Supersonic Throughflow Fan Test Facility at NASA Lewis Research Center [NASA-TP-3038] p 13 N92-31640 LARKO, DAVID E. Nimbus-7 TOMS Antarctic ozone attas August December 1990 NASA-RP-12641 p 35 N91 26651 LARMAN, K. T. The High Resolution Accelerometer Package (HiRAP) flight experiment summary for the first 10 flights (NASA-RP-1267) p 3 N92-22505 LAWRENCE, GEORGE F. Large space structures and systems in the space station era. A bibliography with indexes NASA-SP-7085(02) p 18 N91 28191 LEA, ROBERT N. Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic, volume 2 p 43 N91 20811 NASA-CP-10061-VOL-2 Proceedings of the Second Joint Technology Workshop on Neural Networks and Fuzzy Logic volume p.43 N91 21778 [NASA-CP-10061-VOL-1] LEE KAM-PUL Calculations and curve fits of thermodynamic and transport properties for equilibrium air to 30000 k INASA-RP-12601 p 26 N92 11285 LEPSCH ROGER A. Parametric trade studies on a Shuttle 2 launch system INASA-TP-30591 p 14 N91 18180 LESLIE, FRED W. NASA/MSFC FY90 Global Scale Atmospheric Processes Research Program Review [NASA-CP-3093] p 35 N91-16500 NASA/MSFC FY91 Global Scale Atmospheric Processes Research Program Review NASA-CP-3126 p 35 N91 32660 LEVINE, ARLENE S. First LDEF Post-Retrieval Symposium abstracts INASA-CP-100721 p 52 N91 24912 LDEF 69 Months in Space First Post-Retrieval Symposium, part INASA-CP-3134-PT-11 p 52 N92-23280 LDEF 69 Months in Space First Post Retrieval Symposium, part 2 [NASA-CP-3134-PT-2] p 52 N92-24806 LDEF 69 Months in Space First Post-Retrieval INASA-CP-3134-PT-31 p.52 N92-27083 Second LDEF Post-Retrieval Symposium abstracts NASA-CP-10097] p 52 N92 27218 [NASA-CP-10097] LEWICKI, DAVID G. Development of a full-scale transmission testing procedure to evaluate advanced lubricanis [NASA-TP-3265] p 28 N92-30396 LIGHTSEY, W. D. A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros p 24 N92 13343 INASA-TP-31781 Definition and design of an experiment to test raster scanning with rotating unbalanced mass devices on gimbaled payloads [NASA-TP-3249] p 24 N92 29677 LIN, PAUL Influence of mass moment of inertia on normal modes of preloaded solar array mast INASA-TP-32731 p 31 N92-33476 LIQU. W. W. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] N92-24514 LITVIN, FAYDOR L A method for determining spiral-bevel gear tooth geometry for finite element analysis NASA-TP-30961 p.28 N92-10195 LOLLAR, L. F. Automating a spacecraft electrical power system using

LONG ST	VEN R.		MCCURDY, DAVID A.	MOE, KAREN L.
Note	Wallops Flight Facility	Air-Sea Interaction	Annoyance caused by advanced turboprop aircraft	Space Network Control Conference on Resource
Fig.	Facility		flyover noise Companson of different propeller	Allocation Concepts and Approaches
7 4 A	P-1277	p 36 N92-25981	configurations [NASA-TP-3104] p.45 N92-11758	[NASA-CP-3124] p.16 N92 11039 MONTA, WILLIAM J.
e engl	zeroing capacitance prob nents	OF TOT WATER WAVE	Annoyance caused by aircraft en route noise	A parametric experimental investigation of a scramet
* >	P-1278	p 36 N92-27930	[NASA-TP-3165] p 45 N92-20479	nozzle at Mach 6 with Freon and argon or air used for
LONGMA	, RICHARD W.		MCDOUGAL, DAVID S.	exhaust simulation
3.0	cation of linear systems by	an asymptotically	FIRE Science Results 1988 [NASA-CP-3083] p.34 N91-10448	[NASA:TP-3048] p.4 N91:16990
Mar Na	server P-3164	p 31 N92-26537	MCGHEE, D. S.	MONTANO, J. W. The interaction of hydrogen with metal alloys.
	i. JOSEPH F.	p 31 Naz-2000/	The effect of acceleration versus displacement methods	(NASA-TP-3128) p 23 N91-29318
EUB/J-W-11	bonai Workshop on V	bration isolation	on steady-state boundary forces	MOORE, ALAN D.
T an	gy for Microgravity Science A		[NASA-TP-3218] p 30 N92-21457	Evaluation of noninvasive cardiac output methods during
i N. 3.	2.100941	p 24 N92-28436	MCGINNIS, MICHAEL R. Microbiology on Space Station Freedom	exercise
LUNIN:	MATHAN I.		[NASA-CP-3108] p 37 N91-18573	(NASA-TP-3174) p.38 N92-16553
	iry geosciences, 1989-1990	- FO No 1 00045	MCGOWAN, DAVID M.	Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] p. 38 N92-16554
: *e^ \	P.508	p 50 Ns.2 28345	A simplified method for thermal analysis of a cowi leading	MOORJANI, KISHIN
LYONS	irm orbital lifetime predictions	s.	edge subject to intense local shock-wave-interference	AMSAHTS 1990 Advances in Materials Science and
, 5, 5	3-3058)	p 13 N91-10092	heating [NASA-TP-3167] p.27 N92-24797	Applications of High Temperature Superconductors
			MCMASTER, L. R.	[NASA-CP-3100] p 22 N92-21605
	M		SAM 2 measurements of the polar stratosphene aerosol	MORELLO, SAMUEL A. Aviation Sefety/Automation Program Conference
	141		Volume 9: October 1982 - April 1983	[NASA-CP-3090] p.9 N91-10936
MACEL	Y. ROBERT D.		[NASA-RP-1244] p 33 N91-18505	Report of the Lorkshop on Aviation Safety/Automation
MACE:	fled Ecological Life Support St	vstems: Natural and	MCMASTER, LEONARD R. SAGE 1 data user's guide	Program
Δ.*.*	Ecosystems	,	[NASA-RP-1275] p 34 N92-33097	[NASA-CP-10054] p.9 N91-15141
: NA -	P-10040 [p 40 N91-24744	MCMILLIN, S. NAOMI	MORRELL, FREDERICK R. Joint University Program for Air Transportation
MACPH	30N, GLENN J.		Navier-Stokes and Euler solutions for lee-side flows over	Research, 1989-1990
1.0	iry geoscience», 1989-1990		supersonic delta wings. A correlation with experiment	[NASA-CP-3095] p.1 N91-19024
MADDA	2-508) N. DAL V.	p 50 N92-28345	[NASA-TP-3035] p.4 N91-13401 MEISSNER, C. W., JR.	Joint University Program for Air Transportation
WAUL	non of cloud detection	instruments and	NASA-LaRc Flight-Critical Digital Systems Technology	Research, 1990-1991
Det 1	ince of laminar-flow leading		Workshop	[NASA-CP-3131] p.3 N92-17984 MORRIS, W. DOUGLAS
107 1.1	VSA Leading-Edge Flight-Tes	t Program	[NASA-CP-10028] p 11 N91-24200	Parametric trade studies on a Shuttle 2 launch system
54 A - 7	P-2886	p 11 N91-24199	MELFI, S. HARVEY	architecture
MAIDA	MES C.		The role of water vapor in climate. A strategic research plan for the proposed GEWEX water vapor project	[NASA-TP-3059] p 14 N91-18180
town .	 idation of a human force mode sulting from multi-joint motion 		(GVaP)	MUKUNDA, H. S.
	2-32061	ր Դ N92-26538	(NASA-CP-3120) p 35 N91-25556	Two-dimensional stability of laminar flames {NASA-TP-3131} p.7 N92-17131
	bon and prediction of dynam	•	MELSON, N. DUANE	Direct simulation of high-speed mixing layers
100	ngth from lean body mass		Comparison of jet plume shape predictions and plume	[NASA-TP-3186] p.8 N92-30909
	P-3207	p 40 N92-26682	influence on sonic boom signature [NASA-TP-3172] p 7 N92-25133	MURMAH, EARLL M.
MALE	ENRY A.		MELSON, W. EDWARD, JR.	Navier-Stokes and Euler solutions for lee-side flows over
	ty training		Wind tunnel aerodynamic characteristics of a	supersonic delta wings. A correlation with experiment
				*NASA.TP.30351 6.4 NO1.13401
ALC S	P-1253)	p 15 N92-32456	transport-type airfoil in a simulated heavy rain	[NASA-TP-3035] p.4 N91-13401
MANAL	NATIVIDAD D.		transport-type airfoil in a simulated heavy rain environment	
		d from along-track	transport-type airfoil in a simulated heavy rain environment [NASA-TP-3184] p 8 N92-31532	(NASA-TP-3035) p.4 N91-13401
MANAS :	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio	d from along-track ometers for August	transport-type airfoil in a simulated heavy rain environment	N
MANACE SECTION THE NO	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P-1243]	d from along-track	transport-type axfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter	
MANAS :	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio P-1243] CMAEL J.	d from along-track ometers for August p 34 N91-14683	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6 N92-10011	N NAFTEL, J. CHRISTOPHER Parametri, trade studies on a Shuttle 2 launch system architecture
MANAGE STATE OF THE STATE OF TH	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P-1243]	d from along-track ometers for August p.34 N91-14683 th on supersonic	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter (NASA-TP-3156] p.6 N92-10011 MENON, P. K. A.	N NAFTEL, J. CHRISTOPHER Parametrio, trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180
MANACE SECTION THE NO	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio P-1243] CHAEL J. and analysis of research of the minimization with recoign	d from along-track ometers for August p.34 N91-14683 th on supersonic	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6 N92-10011	N NAFTEL, J. CHRISTOPHER Perametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] NAUGLE, JOHN E.
MANNUM CATTON TOTAL NAME OF MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MA	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio P-1243 CHAEL J. and analysis of research define minimization with recognition processes and processes are researched.	d from along-track ometers for August p.34 N91-14683 th on supersonic	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8. N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6. N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem.	N NAFTEL, J. CHRISTOPHER Parametrio, trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180
MANNUM CATTON TOTAL NAME OF MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MA	MATIVIDAD D. arkening functions as derive of the ERBE scanning radio P.12431 MAEL J. and analysis of research to-lift minimization with recogn P.32021 III. MICHAEL A.	d from along-track ormeters for August p 34 N91-14683 th on supersonic ormendations for p 9 N92-33656	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter (NASA-TP-3156] p.6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12 N91-30154	N NAFTEL, J. CHRISTOPHER Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments [NASA-SP-4215] p.52 N91-28060
MANNUM CATTON TOTAL NAME OF MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MA	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio P. 1243; SMAEL J. and analysis of researcholist minimization with recoign P. 3202; MICHAEL A. geometry effects on rotor blad	d from along-track ormeters for August p 34 N91-14683 th on supersonic ormendations for p 9 N92-33656	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12 N91-30154	N NAFTEL, J. CHRISTOPHER Parametric trade studies on a Shuttle 2 launch system architecture (NASA-TP-3059) p. 14 N91-18180 NAUGLE, JOHN E. First among equals The selection of NASA space science experiments (NASA-SP-4215) p. 52 N91-28060 NEALY, JOHN E.
MANNUM CATTON TOTAL NAME OF MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MANNUM MA	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio P-1243] CHAEL J. and analysis of researc to-lift minimization with recoign P-32021 H, MICHAEL A. secmetry effects on rotor blad activity	d from along-track ometers for August p 34 N91-14683 th on supersonic ommendations for p 9 N92-33656 the vortex interaction	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] [12 N91-30154] mIAKE-LYE, RICHARD C. The atmosphenic effects of stratosphenic aircraft: A first	N NAFTEL, J. CHRISTOPHER Parametri- trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments [NASA-SP-4215] p. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage to mammalian.
MANACE RATE THE MANN T MAN	NATIVIDAD D. arkening functions as derive of the ERBE scanning radio P 1243] MAEL J. and analysis of research- to-lift minimization with recogn P-3202] H. MICHAEL A. peometry effects on rotor blad activity P-30151	d from along-track ormeters for August p 34 N91-14683 th on supersonic ormendations for p 9 N92-33656	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p.8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p.6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12 N91-30154	N NAFTEL, J. CHRISTOPHER Perametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments [NASA-SP-4215] p. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage: o mammalian cell cultures from galactic cosmic rays.
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MANAMA REPORT MANAMA MARCO	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P 1243] CHAEL J. and analysis of researce to-lift minimization with reco- ign P 3202] III. MICHAEL A. peometry effects on rotor blad activity P 30151 L. J. R. logy on Mars P 10055] I. M. peometry effects on rotor blad activity P 30151 L. J. R. logy on Mars P 10055] I. M. peometry effects on rotor blad activity P 30151 LARY L. Division of the control of the control pulsive characteristics toning nozzles at Mach 0 20 to P 30601 A. AUGUSTUS D. (try of a Shuttle reaction time P 3176) mc and concentric muscle per f simulated weightlessness P 31021 R. K. W. 0015 wing pressure ar ments P 3151] JOHN J. mc and concentric muscle per	d from along-track ometers for August p 34 N91-14683 th on supersonic ommendations for p 9 N92-33656 e-vortex interaction p 44 N91-12315 p 41 N91-15691 e-vortex interaction p 44 N91-12315 of canted twin to 120 p 5 N91-22069 r p 40 N92-16562 formance following p 39 N92-17645 the trailing vortex p 6 N92-10981	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p 8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p 6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12 N91-30154 mIAKE-LYE, RICHARD C. The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 MICOL, JOHN R. Simulation of real-gas effects on pressure distributions for aerossisst flight experiment vehicle and companson with prediction [NASA-TP-3157] p 27 N92-20677 MIKULAS, MARTIN M., JR. Effect of type of load on stress analysis of thin-walled ducts [NASA-TP-3248] p 31 N92-25669 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3247] p 31 N92-31280 MINDLAS-TP-3248] p 31 N92-31280 MINDLAS-TP-3277] p 31 N92-31280 MINDLAS-TP-3277] p 31 N92-31280 MINDLAS-TP-3248] p 31 N92-31280 MINDLAS-TP-3049] p 13 N91-13461 Companson of a two-dimensional adaptive-wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3049] p 13 N91-13461 Companson of a two-dimensional adaptive-wall testinedge with analytical wall interference correction	NAFTEL, J. CHRISTOPHER Parametro, trade studies on a Shuttle 2 launch system architecture (NASA-TP-3059) p. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments (NASA-SP-4215] p. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055] p. 50 N91-16981 Radiation protection for human missions to the Moon and Mars (NASA-TP-3079] p. 50 N91-17999 Transport methods and interactions for space radiations (NASA-TP-3079) p. 51 N92-15956 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions (NASA-TP-3211) p. 51 N92-25100 NELSON, MARK Biological Life Support Technologies. Commercial Opportunities (NASA-CP-3094) p. 36 N91-13842 NEMETH, MICHAEL P. Axisymmetric shell analysis of the space shuttle solid rocket booster field joint (NASA-TP-3033) p. 28 N91-14618 Buckling behavior of long symmetrically laminated plates subjected to combined loadings (NASA-TP-3195) p. 22 N92-25160
MANAMA SALAMAN AMARIAN	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P.1243 CMAEL J. and analysis of researce to-lift minimization with reco- sign P.3202 III. MICHAEL A. peometry effects on rotor blad activity P.3015 L. J. R. logy on Mars P.10055 I. M. peometry effects on rotor blad activity P.3015 L. J. R. pometry effects on rotor blad activity P.3015 I. M. pometry effects on rotor blad activity P.3015 I. M. pometry effects on rotor blad activity P.3015 IARY L. pulsive characteristics toning nozzles at Mach 0.20 to P.3060 A. AUGUSTUS D. Althy of a Shuttle reaction times P.3176 The and concentric muscle per f simulated weightlessness P.3182 R. K. W. 0015 wing pressure ar ments P.3151 JOHN J. The and concentric muscle per f simulated weightlessness	d from along-track ometers for August p 34 N91-14683 th on supersonic ommendations for p 9 N92-33656 the vortex interaction p 44 N91-12315 p 41 N91-15691 the vortex interaction p 44 N91-12315 of canted twin to 1 20 p 5 N91-22069 f p 40 N92-16562 formance following p 39 N92-17645 the d trailing vortex p 6 N92-10981 informance following	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p 8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter (NASA-TP-3156) p 6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12 N91-30154 MIAKE-LYE, RICHARD C. The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 MICOL, JOHN R. Simulation of real-gas effects on pressure distributions for aeroassist flight experiment vehicle and companson with prediction [NASA-TP-3157] p 27 N92-20677 MIKULAS, MARTIN M., JR. Buckling and vibration analysis of a simply supported column with a precievise constant cross section [NASA-TP-3090] p 29 N91-20503 MIN, J. B. Effect of type of load on stress analysis of thin-walled ducts [NASA-TP-3277] p 31 N92-26669 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 MINECK, RAYMOND E. Calibration of the 13- by 13-inch edaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3049] p 13 N91-13461 Companson of a two-dimensional adaptive-wall technique with analytical wall interference correction technique	NAFTEL, J. CHRISTOPHER Parametr., trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments [NASA-SP-4215] p. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage: o mammalian cell cultures from palactic cosmic rays [NASA-TP-3055] p. 50 N91-16981 Radiation protection for human missions to the Moon and Mars [NASA-TP-3079] p. 50 N91-17999 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3211] p. 51 N92-25100 NELSON, MARK Biological Lite Support Technologies. Commercial Opportunities [NASA-CP-3094] p. 36 N91-13842 NEMETH, MICHAEL P. Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-303] p. 28 N91-14618 Buckling behavior of long symmetrically laminated plates subjected to combined loadings [NASA-TP-3195] p. 22 N92-25160 NETTLES, A. T. A novel method of testing the shear strength of thick honeycomb composites [NASA-TP-3108] p. 21 N91-21242
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MANAWAMANAMANAMANAMANAMANAMANAMANAMANAMA	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P.1243 CHAEL J. and analysis of research to-lift minimization with recogn P.32021 R. MICHAEL A. Recometry effects on rotor blad activity P.30151 L. J. R. logy on Mars P.10055] R. M. Recometry effects on rotor blad activity P.30151 L. J. R. Recometry effects on rotor blad activity P.30151 RMY L. Spulsive Characteristics toning nozzles at Mach 0.20 to P.3060] A. AUGUSTUS D. Recometry effects on rotor blad activity P.30155 Recometry effects on rotor blad activity P.30156 RMY L. Spulsive Characteristics toning nozzles at Mach 0.20 to P.3060] A. AUGUSTUS D. Recometry effects on rotor blad activity P.30155 Recometry effects on rotor blad activity P.30151 Recometry effects effe	d from along-track ometers for August p 34 N91-14683 ch on supersonic ommendations for p 9 N92-33656 de-vortex interaction p 44 N91-12315 p 41 N91-15691 de-vortex interaction p 44 N91-12315 of canted twin to 1 20 p 5 N91-22069 from ance following p 39 N92-17645 and trailing vortex p 6 N92-10981 decomposed formance following p 39 N92-17645 and trailing vortex p 6 N92-10981 decomposed formance following r N92-17645	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p 8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter (NASA-TP-3156) p 6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12 N91-30154 mIAKE-LYE, RICHARD C. The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p 33 N92-19121 MICOL, JOHN R. Simulation of real-gas effects on pressure distributions for aeroassist flight experiment vehicle and companson with prediction [NASA-TP-3157] p 27 N92-20677 MIKULAS, MARTIN M., JR. Buckling and vibration analysis of a simply supported column with a piecewise constant cross section [NASA-TP-3090] p 29 N91-20503 MIN, J. B. Effect of type of load on stress analysis of thin-walled ducts [NASA-TP-3248] p 31 N92-26669 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 MINECK, RAYMOND E. Calibration of the 13- by 13-inch edaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3321] p 13 N91-13461 Companson of a two-dimensional adaptive-wall technique with analytical wall interference correction performance	NAFTEL, J. CHRISTOPHER Parametr., trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments [NASA-SP-4215] p. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p. 50 N91-16981 Radiation protection for human missions to the Moon and Mars [NASA-TP-3079] p. 50 N91-17999 Transport methods and interactions for space radiations [NASA-TP-3079] p. 51 N92-15956 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3211] p. 51 N92-25100 NELSON, MARK Biological Life Support Technologies. Commercial Opportunities [NASA-TP-3094] p. 36 N91-13842 NEMETH, MICHAEL P. Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3033] p. 28 N91-14618 Buckling behavior of long symmetrically lamineted plates subjected to combined loadings [NASA-TP-3195] p. 22 N92-25160 NETTLES, A. T. A novel method of testing the shear strength of thick honeycomb composites [NASA-TP-3108] p. 21 N91-21242 An examination of the damage tolerance enhancement
MANAWARANA SALAMANA S	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P.1243 P.1243 P.1243 P.1243 P.1243 P.1245 I. and analysis of researche-lift minimization with recognition and recognition with recognition and	d from along-track ometers for August p 34 N91-14683 th on supersonic ommendations for p 9 N92-33656 te-vortex interaction p 44 N91-12315 p 41 N91-15691 te-vortex interaction p 44 N91-12315 of canted twin to 120 p 5 N91-22069 f p 40 N92-16562 formance following p 39 N92-17645 the trailing vortex p 6 N92-10981 informance following r N92-17645 tr Conference, part p 28 N92-2928	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p. 8. N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p. 6. N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12. N91-30154 mIAKE-LYE, RICHARD C. The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33. N92-19121 MICOL, JOHN R. Simulation of real-gas effects on pressure distributions for aerosassist flight experiment vehicle and companson with prediction [NASA-TP-3157] p. 27. N92-20677 MIKULAS, MARTHI M., JR. Buckling and vibration analysis of a simply supported column with a piecewise constant cross section [NASA-TP-3090] MIM, J. B. Effect of type of load on stress analysis of thin-walled ducts [NASA-TP-3248] p. 31. N92-26669 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3248] p. 31. N92-31280 MINECK, RAYMOND E. Calibration of the 13- by 13-inch edaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3132] p. 31. N91-13461 Companson of a two-dimensional adaptive-wall techniques with analytical wall interference correction techniques with analytical wall interference correction techniques with analytical wall interference correction techniques [NASA-TP-3132] p. 28. N91-30540	NAFTEL, J. CHRISTOPHER Parametric trade studies on a Shuttle 2 launch system architecture (NASA-TP-3059) P. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments (NASA-SP-4215) P. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) P. 50 N91-16981 Radiation protection for human missions to the Moon and Mars (NASA-TP-3079) Transport methods and interactions for space radiations (NASA-RP-1257) MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions (NASA-TP-3011) NELSON, MARK Biological Life Support Technologies. Commercial Opportunities (NASA-CP-3094) NEMETH, MICHAEL P. Axisymmetric shell analysis of the space shuttle solid rocket booster field joint (NASA-TP-3033) P. 28 N91-14618 Buckling behavior of long symmetrically laminated plates subjected to combined loadings. (NASA-TP-3195) NETTLES, A. T. A novel method of testing the shear strength of thick honeycomb composities (NASA-TP-3108) P. 21 N91-21242 An examination of the demage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) (NASA-TP-3160) P. 21 N92-11142 NEWMAN, J. C., JR. Stress concentrations for straight-shank and
MANA COPE	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack P.1243 CHAEL J. and analysis of research to-lift minimization with recorgn P.32021 R. MICHAEL A. peometry effects on rotor blad activity P.30151 L. J. R. logy on Mars P.100551 R. M. peometry effects on rotor blad activity P.30151 R. M. peometry effects on rotor blad activity P.30151 RAY L. Opulsive characteristics toning nozzles at Mach 0.20 to P.30601 A. AUGUSTUS D. Alty of a Shuttle reaction timel P.31761 Inc and concentric muscle per fundated weightlessness P.31821 R. K. W. O015 wing pressure arments P.31511 JOHN J. Inc and concentric muscle per furnitated weightlessness P.31821 CK, M. PATRICK International Laser Rada	d from along-track ometers for August p 34 N91-14683 th on supersonic ommendations for p 9 N92-33656 te-vortex interaction p 44 N91-12315 p 41 N91-15691 te-vortex interaction p 44 N91-12315 of canted twin to 120 p 5 N91-22069 f p 40 N92-16562 formance following p 39 N92-17645 the trailing vortex p 6 N92-10981 informance following r N92-17645 tr Conference, part p 28 N92-2928	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p. 8 N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p. 6 N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] r. 12 N91-30154 MAKE-LYE, RICHARD C. The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33 N92-19121 MICOL, JOHN R. Simulation of real-gas effects on pressure distributions for aerosassif flight experiment vehicle and companson with prediction [NASA-TP-3157] p. 27 N92-20677 MIKULAS, MARTIN M., JR. Either of type of load on stress analysis of thin-walled ducts [NASA-TP-3248] p. 31 N92-25669 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p. 31 N92-31280 MINDLECK, RAYMOND E. Calibration of the 13- by 13-inch adaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3049] p. 13 N91-13461 Compansion of a two-dimensional adaptive-wall techniques with analytical wall interference correction technique with analytical wall interference correction technique with analytical wall interference correction techniques with analytical wall interference correction technique with analytical wall interference correction techniques (NASA-TP-3152) p. 28 N91-30540 MISHRA, S. K.	NAFTEL, J. CHRISTOPHER Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments [NASA-SP-4215] p. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage: o mammalian cell cultures from galactic cosmic rays [NASA-TP-3055] p. 50 N91-16981 Radiation protection for human missions to the Moon and Mars [NASA-TP-3079] p. 50 N91-17999 Transport methods and interactions for space radiations [NASA-TP-3079] p. 51 N92-15956 MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions [NASA-TP-3211] p. 51 N92-25100 NELSON, MARK Biological Lite Support Technologies. Commercial Opportunities [NASA-TP-3094] p. 36 N91-13842 NEMETH, MICHAEL P. Axisymmetric shell analysis of the space shuttle solid rocket booster field joint [NASA-TP-3039] p. 28 N91-14618 Buckling behavior of long symmetrically laminated plates subjected to combined loadings. [NASA-TP-3195] p. 22 N92-25160 NETTLES, A. T. A novel method of testing the shear strength of thick honeycomb composities [NASA-TP-3108] p. 21 N91-21242 An examination of the damage tolerance enhancement of carbon/epoxy using an outer tamina of spectra (R) [NASA-TP-3108] p. 21 N91-21142 NEWMAN, J. C., JR. Stress. concentrations for straight-shank and countersunk holes in plates subjected to tension, bending,
MANAWARANA SALAMANA S	NATIVIDAD D. arkening functions as derive of the ERBE scanning rack of the ERBE scanning rack P.1243 P.1243 PMAEL J. and analysis of researcholift minimization with recognition of the end of the	d from along-track ometers for August p 34 N91-14683 th on supersonic ommendations for p 9 N92-33656 te-vortex interaction p 44 N91-12315 p 41 N91-15691 te-vortex interaction p 44 N91-12315 of canted twin to 120 p 5 N91-22069 f p 40 N92-16562 formance following p 39 N92-17645 the trailing vortex p 6 N92-10981 informance following r N92-17645 tr Conference, part p 28 N92-2928	transport-type arfoil in a simulated heavy rain environment [NASA-TP-3184] p. 8. N92-31532 MELTON, JOHN E. Transonic and supersonic Euler computations of vortex-dominated flow fields about a generic fighter [NASA-TP-3156] p. 6. N92-10011 MENON, P. K. A. Application and flight test of linearizing transformations using measurement feedback to the nonlinear control problem [NASA-TP-3154] ; 12. N91-30154 mIAKE-LYE, RICHARD C. The atmospheric effects of stratospheric aircraft: A first program report [NASA-RP-1272] p. 33. N92-19121 MICOL, JOHN R. Simulation of real-gas effects on pressure distributions for aerosassist flight experiment vehicle and companson with prediction [NASA-TP-3157] p. 27. N92-20677 MIKULAS, MARTHI M., JR. Buckling and vibration analysis of a simply supported column with a piecewise constant cross section [NASA-TP-3090] MIM, J. B. Effect of type of load on stress analysis of thin-walled ducts [NASA-TP-3248] p. 31. N92-26669 Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3248] p. 31. N92-31280 MINECK, RAYMOND E. Calibration of the 13- by 13-inch edaptive wall test section for the Langley 0.3-meter transonic cryogenic tunnel [NASA-TP-3132] p. 31. N91-13461 Companson of a two-dimensional adaptive-wall techniques with analytical wall interference correction techniques with analytical wall interference correction techniques with analytical wall interference correction techniques [NASA-TP-3132] p. 28. N91-30540	NAFTEL, J. CHRISTOPHER Parametric trade studies on a Shuttle 2 launch system architecture (NASA-TP-3059) P. 14 N91-18180 NAUGLE, JOHN E. First among equals. The selection of NASA space science experiments (NASA-SP-4215) P. 52 N91-28060 NEALY, JOHN E. Cellular track model of biological damage to mammalian cell cultures from galactic cosmic rays (NASA-TP-3055) P. 50 N91-16981 Radiation protection for human missions to the Moon and Mars (NASA-TP-3079) Transport methods and interactions for space radiations (NASA-RP-1257) MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions (NASA-TP-3011) NELSON, MARK Biological Life Support Technologies. Commercial Opportunities (NASA-CP-3094) NEMETH, MICHAEL P. Axisymmetric shell analysis of the space shuttle solid rocket booster field joint (NASA-TP-3033) P. 28 N91-14618 Buckling behavior of long symmetrically laminated plates subjected to combined loadings. (NASA-TP-3195) NETTLES, A. T. A novel method of testing the shear strength of thick honeycomb composities (NASA-TP-3108) P. 21 N91-21242 An examination of the demage tolerance enhancement of carbon/epoxy using an outer lamina of spectra (R) (NASA-TP-3160) P. 21 N92-11142 NEWMAN, J. C., JR. Stress concentrations for straight-shank and

Thermal and structural tests of Rene 41 honeycomb

The development of the NASA aviation safety reporting

Nutritional Requirements for Space Station Freedom

Graphite/epoxy composite adapters for the Space Shuttle/Centaur vehicle

p 30 N92-24205

p 10 N91-70436

p 24 N91 25303

p 40 N92-25961

p 15 N92-31251

integral-tank concept for future space transportation

Analysis and prediction of Multiple-Site Damage (MSD)	PANDYA, ABHILASH K.
fatigue crack growth [NASA-TP-3231] p 31 N92-31279	The validation of a human force model to predict dynamic forces resulting from multi-joint motions
NEWMAN, PERRY A.	[NASA-TP-3206] p 40 N92-26538
Wall-interference assessment and corrections for transonic NACA 0012 airfoil data from various wind	Correlation and prediction of dynamic human isolated
tunnels	joint strength from lean body mass [NASA-TP-3207] p.40 N92-26682
[NASA-TP-3070] p 5 N91-20043	PARMA, GEORGE F.
NEWTON, FREDERICK K. A method of evaluating efficiency during space-suited	Development of a truss joint for robotic assembly of
work in a neutral buoyancy environment	space structures [NASA-TP-3214] p 31 N92-27974
[NASA-TP-3153] p 40 N92-19772	PARMAR, DEVENDRA S.
::GO, DUC M. Track structure model of cell damage in space flight	Positron lifetime measurements in chiral nematic liquid
(NASA-TP-3235) p 39 N92-34154	crystals
NICOL, DAVID M. Advanced techniques in reliability model representation	[NASA-TP-3122] p 46 N92-10677
and solution	PARRISH, RUSSELL V. Effect of short-term exposure to stereoscopic
[NASA-TP-3242] p 43 N92-30483	three-dimensional flight displays on real-world depth
NIEDRA, JANIS M. The 23 to 300 C demagnetization resistance of	perception [NASA-TP-3117] p 11 N92-13065
samanum-cobalt permanent magnets	PATNAIK, SURYA N.
[NASA-TP-3119] p 25 N92-11252	Improved accuracy for finite element structural analysis
NISSIM, ELI Design of control laws for flutter suppression based on	via a new integrated force method
the aerodynamic energy concept and comparisons with	[NASA-TP-3204] p 30 N92-22227 PATTERSON, JAMES C., JR.
other design methods [NASA-TP-3056] p 29 N91-10328	Effect of location of aft-mounted nacelles on the
NOOR, AHMED K.	longitudinal aerodynamic characteristics of a high-wing
Research in Structures, Structural Dynamics and	transport airplane [NASA-TP-3047] p.4 N91-13402
Materials, 1990 [NASA-CP-3064] p 29 N91-10301	PENDERGRAFT, ODIS C., JR.
Free vibrations of thin-walled semicircular	Parametric study of afterbody/nozzle drag on twin
graphite-epoxy composite frames	twc-dimensional convergent-divergent nozzles at Mach numbers from 0.69 to 1.20
(NASA-TP-3010) p 29 N91-13750 Computational methods for Inctionless contact with	[NASA-TP-2640] p.4 N91-14316
application to Space Shuttle Orbiter nose-gear tires	Static thrust-vectoring performance of nonaxisymmetric
[NASA-TP-3073] p 30 N91-22576	convergent-divergent nozzles with post-exit yaw vanes [NASA-TP-3085] p.5 N91-21059
Computational Structures Technology for Airframes and Propulsion Systems	installation effects of wing-mounted turbotan
[NASA-CP-3142] p 31 N92-25911	nacelle-pylons on a 1/17-scale, twin-engine, low-wing
NORBURY, JOHN W.	transport model [NASA-TP-3168] p 7 N92-19002
Transport methods and interactions for space radiations	PENN, LANNING M.
[NASA-RP-1257] p 51 N92-15956	Nimbus-7 TOMS Antarctic ozone atlas: August -
	December 1990 [NASA-RP-1264] p.35 N91-26651
0	PEREZ, SHARON E.
	The state of the s
	Static footprint local forces, areas, and aspect ratios
OLSEN, LARRY E.	for three type 7 aircraft tires
OLSEN, LARRY E. Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-	
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free whotations of thin-walled semicircular
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-floot wind tunnel [NASA-TP-3020] p 45 N91-19824	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80- by 120-foot wind tunnel	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free whotations of thin-walled semicircular
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH O. Identification of linear systems by an asymptotically
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free wbrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free wbrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Ai-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samenum-cobalt permanent magnets	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free wbrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Ai-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samenum-cobalt permanent magnets	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Ai-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samenum-cobalt permanent magnets	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Ai-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samarum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH O. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345 PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 PINKERTON, THERESA L.
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANME M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-316-1] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-506, p 50 N92-28345 PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-floot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Ai-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHILLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-506, p. 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on fluiter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space	for three type 7 aircraft tres [NASA-TP-2983] p 10 N91-17014 PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames {NASA-TP-3010} p 29 N91-13750 PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] p 31 N92-26537 PHILLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508], p 50 N92-28345 PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 {NASA-TP-3116} p 11 N92-13054
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHALLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p. 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yew angle and Reynolds number on
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH O. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHALIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 †NASA-TP-3116] PLENTOVICH, E. 8. Effects of yaw angle and Reynolds number on rectangular-box cavifies at subsonic and transonic
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHALLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p. 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yew angle and Reynolds number on
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Linar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANME M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH O. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHALIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345 PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yew angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR.
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] PDE, C. C., JR. NASA workshop on impact damage to composites
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samerium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Linar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] PDE, C. C., JR. NASA workshop on impact damage to composites
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Upper stages using liquid propulsion and metallized propellants	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. 8. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) P 21 N91-29240 POLITES, M. E. A scheme for bandpass filtering magnetometer
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind turnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using figuid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-506, p.50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. 8. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Upper stages using liquid propulsion and metallized propellants	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. 8. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) P 21 N91-29240 POLITES, M. E. A scheme for bandpass filtering magnetometer
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind turnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using figuid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L Model reduction by trimming for a class of semi-Markov reisability models and the corresponding error bound	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508, p50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] PDE, C. C., JR. NASA workshop on impact damage to composites [NASA-CP-10075] POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiproper motion [NASA-TP-3123] P 42 N91-25629 A nonlinear estimator for reconstructing the angular
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using figuid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] PHALLIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508, p.50 N92-28345] PIRRSON, DUANE L. Microbiology on Spaca Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavifies at subsonic and transonic speeds [NASA-TP-3099] PDE, C. C., JR. NASA-workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellitte skiprope motion [NASA-TP-3123] P 42 N91-25629 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samarium-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mara [NASA-TP-3062] p 19 N91-11600 Upper stages using figuid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Fault tolerance of artificial neural networks with applications in critical systems	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508] Planetary geosciences, 1989-1990 [NASA-SP-508] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C. JR. NASA workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope motion [NASA-TP-3123] A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] Definition and design of an experiment to test raster
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind turnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using figuid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L. Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANME M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-506, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope motion [NASA-TP-3123] P 42 N91-25629 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] P 24 N92-13343 Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind funnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L. Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285 Experimental validation of clock synchronization	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHALIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on fluiter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yew angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR. NASA workshop on impact damage to composites [NASA-CP-10075] POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope motion [NASA-TP-3123] A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on gimbaled payloads
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind turnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using figuid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L. Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANME M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-506, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] POE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope motion [NASA-TP-3123] P 42 N91-25629 A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] P 24 N92-13343 Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11800 Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L. Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285 Experimental validation of clock synchronization algorithms [NASA-TP-3209] p 42 N92-27589 Advanced techniques in reliability model representation	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3161] PHALIPS, ROGER J. Planetary geosciences, 1989-1990 [NASA-SP-508] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on fluiter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. 8. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-CP-10075] POE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope motion [NASA-TP-3123] A nonlinear estimator for reconstructing the angular velocity of a spacecraft without rate gyros [NASA-TP-3178] Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3249] P 4 N92-29677 Reconfiguring the RUM experiment to test circular scanning with rotating unbalanced-mass devices on
Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind turnel [NASA-TP-3020] p 45 N91-19824 OUTLAW, RONALD A. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-319] p 23 N91-20266 OVERTON, ERIC The 23 to 300 C demagnetization resistance of samanum-cobalt permanent magnets [NASA-TP-3119] p 25 N92-11252 P PADULA, SHARON L. Multidisciplinary optimization of controlled space structures with global sensitivity equations [NASA-TP-3130] p 18 N92-11087 PALASZEWSKI, BRYAN Lunar missions using chemical propulsion: System design issues [NASA-TP-3065] p 19 N91-15308 PALASZEWSKI, BRYAN A. Metallized propellants for the human exploration of Mars [NASA-TP-3062] p 19 N91-11600 Upper stages using liquid propulsion and metallized propellants [NASA-TP-3191] p 20 N92-17151 PALUMBO, DANIEL L. Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound [NASA-TP-3089] p 43 N91-25741 Fault tolerance of artificial neural networks with applications in critical systems [NASA-TP-3187] p 42 N92-22285 Experimental validation of clock synchronization algorithms [NASA-TP-3099] p 42 N92-27589	for three type 7 aircraft tres [NASA-TP-2983] PETERS, JEANNE M. Free vibrations of thin-walled semicircular graphite-epoxy composite frames [NASA-TP-3010] PHAN, MINH Q. Identification of linear systems by an asymptotically stable observer [NASA-TP-3164] Planetary geosciences, 1989-1990 [NASA-SP-508, p 50 N92-28345] PIERSON, DUANE L. Microbiology on Space Station Freedom [NASA-CP-3108] PINKERTON, THERESA L. Planform curvature effects on flutter characteristics of a wing with 56 deg leading-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] PLENTOVICH, E. B. Effects of yaw angle and Reynolds number on rectangular-box cavities at subsonic and transonic speeds [NASA-TP-3099] PDE, C. C., JR. NASA workshop on impact damage to composites (NASA-CP-10075) POLITES, M. E. A scheme for bandpass filtering magnetometer measurements to reconstruct tethered satellite skiprope motion [NASA-TP-3123] Definition and design of an experiment to test raster scanning with rotating unbalanced-mass devices on gimbaled payloads [NASA-TP-3178] P 24 N92-29677 Reconfiguring the RUM experiment to test circular

PORRO, A. R. idel to predict dynamic Evaluation of a technique to generate artificially เกกร thickened boundary layers in supersonic and hypersonic p 40 N92-26538 flows INASA-TP-31421 amic human isolated POTTER, ANDREW Orbital debris. Technical issues and future directions. p 40 N92-26682 INASA-CP 100771 p 49 N92 33478 POVINELLI, LOUIS A. robotic assembly of Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 p 31 N92-27974 POWELL, K. A. SAM 2 measurements of the polar stratospheric aerosol n chiral nematic liquid Volume 9 October 1982 - April 1983 p 33 N91-18505 INASA-RP-12441 p 46 N92-10677 POWERS, CHARLES E. Long-term life testing of Geostationary Operational Environmental Satellite (GOES) encoder lamps re to stereoscopic p 23 N92-20063 on real-world depth PRATHER, M. J. The atmospheric effects of stratospheric arcraft. A p 11 N92-13065 topical review p 33 N91-16466 (NASA-RP-1250) ent structural analysis PRATHER, MICHAEL J. The atmospheric effects of stratospheric aircraft. A first p 30 N92-22227 ogram report (NASA-RP-1272) p 33 N92-19121 led nacelles on the PROTZEL, PETER W. ristics of a high-wing Fault tolerance of artificial neural networks with applications in critical systems. p.4 N91-13402 INASA-TP-3187 p 42 N92-22285 PUESCHEL RUDOLF F. International Workshop on Stratospheric Aerosols nozzle drag on twin ent nozzies at Mach Measurements, Properties, and Effects INASA-CP-31141 p 32 N91-32528 p.4 N91-14316 e of nonaxisymmetric Q post-exit yaw vanes p 5 N91 21059 QUEIJO, MANUEL J. mounted turbotan Benefits from synergies and advanced technologies for nn-engine, low-wing an advanced-technology space station p 14 N91-20177 [NASA-TP-3067] p 7 N92-19002 R ne atlas: August p 35 N91-26651 RANEY, DAVID L. Control integration concept for hypersonic cruise-turn maneuvers as, and aspect ratios [NASA-TP-3136] p 13 N92-20195 p 10 N91-17014 RASH, JAMES L. The 1991 Godda:rt Conference on Space Applications of Artificial Intelligence ralled semicircular INASA-CP-31101 p 43 N91-22769 The 1992 Goddard Conference on Space Applications p 29 N91-13750 of Artificial Intelligence [NASA-CP-3141] p 43 N92-23356 by an asymptotically RASHID, MICHAEL p 31 N92-26537 Evaluation of noninvasive cardiac output methods during exercise [NASA-TP-3174] p 38 N92-16553 p 50 N92-28345 Reliability of a Shuttle reaction timer [NASA-TP-3176] p 40 N92 16562 RE, RICHARD J. p 37 N91-18573 Static internal performance of ventral and rear nozzle concepts for short-takeoff and vertical-landing aircraft [NASA-TP-3103] p 6 N92-10975 tter characteristics of installation effects of wing-mounted turbofan sep and panel aspect nacelle-pylons on a 1/17-scale, twn-engine, low-wing p 11 N92-13054 transport model [NASA-TP-3168] p 7 N92-19002 synoids number on Parametric investigation of single-expansion-ramp onic and transonic nozzles at Mach numbers from 0.60 to 1.20 [NASA-TP-3240] p.9 N92-34193 p.5 N91-27124 REARDON, LAWRENCE F

systems [NASA-TP-3145]

system [NASA-RP-1114]

REYNARD, W. D.

RHEINFURTH, M. H.

(NASA-RP-1262)

RICE, BARBARA L.

[NASA-CP-3146]

INASA-TP-30141

RING, DARRYL S.

Methods of applied dynamics

ROBERTS, F. E., III		
	SCHIMMERLING, WALTER S.	A three-dimensional finite-element thermal/mechanical
Optical measurements on solid specimens of solid rocket motor exhaust and solid rocket motor slag	Transport methods and interactions for space radiations	analytical technique for high-performance traveling wave tubes.
[NASA-TP-3177] p 20 N92-20949	[NASA-RP-1257] p 51 N92-15956	[NASA-TP-3081] p 25 N91-27436
ROBINSON, MARTHA P.	SCHLICKENMAIER, HERBERT	SHEN, CHIH-PING
Failure behavior of generic metallic and composite	Airborne Wind Shear Detection and Warning Systems	Feasibility study of a low energy gamma ray system for
aircraft structural components under crash loads	Second Combined Manufacturers and Technologists'	measuring quantity and flow rate of slush hydrogen
[NASA-RP-1239] p 29 N91-13751	Conference, part 1	[NASA-TP-3150] p 19 N92-25147
Computational methods for frictionless contact with	[NASA-CP-10050-PT-1] p 9 N91-11682	SHEPHERD, KEVIN P.
application to Space Shuttle Orbiter nose-gear tires	Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists'	Wind turbine acoustics
[NASA-TP-3073] p 30 N91-22576	Conference, part 2	[NASA-TP-3057] p 44 N91 16679
ROCHELLE, WILLIAM C.	[NASA-CP-10050-PT-2] p.9 N91-11695	A loudness calculation procedure applied to shaped
Stagnation-point heat-transfer rate predictions at ar- kissist flight conditions	Airborne Wind Shear Detection and Warning Systems	sonic booms {NASA-TP-3134} p.45 N92 11765
[NASA-TP-3208] p 27 N92-31281	Third Combined Manufacturers' and Technologists'	SHIDELER, JOHN L.
ROPER, MARY L.	Conference, part 2	Thermal and structural tests of Rene 41 honeycomb
Eccentric and concentric muscle performance following	[NASA-CP-10060-PT-2] p 9 N91-24140	integral-tank concept for future space transportation
7 days of simulated weightlessness	Airborne Wind Shear Detection and Warning Systems Third Combined Manufacturers' and Technologists'	systems
[NASA-TP-3182] p 39 N92-17645	Conference, part 1	(NASA-TP-3145) p 30 N92-24205
ROSSONI, P.	[NASA-CP-10060-PT-1] p.9 N91-24166	SHIER, DOUGLAS R.
Cable compliance	SCHMELTEKOPF, ARTHUR L.	Structural factoring approach for analyzing stochastic
[NASA-TP-3216] p 24 N92-30378	The atmospheric effects of stratospheric aircraft. A first	networks
ROSTAFINSKI, WOJCIECH	program report	[NASA-TP-3069] p 43 N91-18753
Monograph on propagation of sound waves in curved	[NASA-RP-1272] p 33 N92-19121	SHIH, TH.
ducts	SCHMIDT, JAMES F.	Workshop on Engineering Turbulence Modeling
[NASA-RP-1248] p 44 N91-15848	Design and performance of controlled-diffusion stator	[NASA-CP-10088] p 27 N92-24514
ROWELL, LAWRENCE F. Thermal distortion analysis of a spacecraft box leves in	compared with original double-circular-arc stator {NASA-TP-28521 p. 12 N92-22863	SHIMSKI, JOHN T.
Thermal-distortion analysis of a spacecraft box truss in geostationary orbit	[NASA-TP-2852] p.12 N92-22863 SCHOESS, JEFF N.	Development of a full-scale transmission testing procedure to evaluate advanced lubricants
[NASA-TP-3054] p 16 N91-11041	The microgravity environment of the Space Shuttle	[NASA-TP-3265] p 28 N92-30396
Launch vehicle integration options for a large Earth	Columbia middeck during STS-32	SHINN, JUDY L
sciences geostationary platform concept	[NASA-TP-3140] p 48 N92-11930	Cellular track model of biological damage to mammalian
[NASA-TP-3083] p 15 N91-27180	SCHULTZ, KJ.	cell cultures from galactic cosmic rays
ROWLAND, MICHAEL W.	Wake geometry effects on rotor blade-vortex interaction	[NASA-TP-3055] p 50 N91-16981
SAGE 1 data user's guide	noise directivity	Improvements in computational accuracy of BRYNTRN
[NASA-RP-1275] p 34 N92-33097	[NASA-TP-3015] p 44 N91-12315	(a baryon transport code)
RUMMEL, JOHN D.	SCHWARZ, RAY P.	[NASA-TP-3093] p.51 N91-23017
Fourth Symposium on Chemical Evolution and the Origin	Analysis of gravity-induced particle motion and fluid	Radiation risk predictions for Space Station Freedom
and Evolution of Life	perfusion flow in the NASA-designed rotating	orbits
(NASA-CP-3129) p 41 N92-13588	zero-head-space tissue culture vessel	[NASA-TP-3098] p.51 N91-26107 Transport methods and interactions for space
RUNYAN, L. JAMES	[NASA-TP-3143] p 24 N92-13340	Transport methods and interactions for space radiations
Lewis icing research tunnel test of the aerodynamic	Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as	[NASA-RP-1257] p 51 N92-15956
effects of aircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395	influenced by gravity	Multiple lesion track structure model
RYAN, R. S.	[NASA-TP-3200] p 40 N92-28897	[NASA-TP-3185] p.39 N92-22186
The role of failure/problems in engineering: A	SCIALDONE, JOHN J.	An efficient HZETRN (a galactic cosmic ray transport
commentary of failures experienced - lessons learned	Outgassing data for selecting spacecraft materials,	code)
[NASA-TP-3213] p 24 N92-22235	revision 2	[NASA-TP-3147] p 51 N92-22218
RYAN, S. G	[NASA-RP-1124-REV-2] p 21 N91-14437	Track structure model of cell damage in space flight
Limit cycle vibrations in turbomachinery	SCOTT, A. DON	[NASA-TP-3235] p 39 N92-34154 SHIVAKUMAR, K. N.
[NASA-TP-3181] p 20 N92-14108	Rigid-body-control subsystem sizing for an Earth science	Stress concentrations for straight-shank and
	geostationary platform	countersunk holes in plates subjected to tension, bending,
S	[NASA-TP-3087] p 17 N91-22302	and pin loading
		[NASA-TP-3192] p 31 N92-25997
9	SCOTT, COURTNEY J.	(14.10.1 1. 0.30) p. 1. 163£ £3331
_	Nimbus-7 TOMS Antarctic ozone atlas August	SHRADER, CHRIS R.
SACHSE, GLEN W	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990	SHRADER, CHRIS R. The Compton Observatory Science Workshop
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p 49 N92-21874
SACHSE, GLEN W Venturi air-y-1 vacuum ejectors for high-volume atmospheric sar ping on aircraft platforms	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J.	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J.
SACHSE, GLEN W Ventun air-ji-1 vacuum ejectors for high-volume atmosphenc sar ping on aircraft platforms [NASA-TP-3183 p.11 N92-20546	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p. 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened
SACHSE, GLEN W Venturi air-y-1 vacuum ejectors for high-volume atmospheric sar ping on aircraft platforms	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p. 49 N92-21874 SHUARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression
SACHSE, GLEN W Venturi airrj-** vacuum ejectors for high-volume atmosphenic sar bing on aircraft platforms [NASA-TP-3183 p 11 N92-20546 SALAS, MANUEL L	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p. 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression
SACHSE, GLEN W Ventun air-joh vacuum ejectors for high-volume atmosphenc sar ping on aircraft platforms [NASA-TP-3183 p.11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p.6 N91-27140 SANDFORD, MAYNAL C.	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p. 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} p. 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during
SACHSE, GLEN W Venturi air-jo-1 vacuum ejectors for high-volume atmosphenic sar bi-ing on aircraft platforms [NASA-TP-3183 p.11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p.6 N91-27140 SANDFORD, MANNAI C. Planform curvature: "fects on flutter characteristics of	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmospheric sar-p ⁻¹ ng on aircraft platforms [NASA-TP-3183 p 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature infects on flutter characteristics of a wing with 56 deg lealing-edge sweep and panel aspect	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553
SACHSE, GLEN W Venturi air-je ^{nt} vacuum ejectors for high-volume atmosphenc sar peng on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature: Hocts on flutter characteristics of a wing with 56 deg leauing-edge sweep and panel aspect ratio of 1.14	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-RP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD Q.	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest
SACHSE, GLEN W Ventun airry ⁵¹ vacuum ejectors for high-volume atmosphenc sar o'ing on aircraft platforms [NASA-TP-3183 p.11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p.6 N91-27140 SANDFORD, MAYNAL C. Planform curvature iffects on flutter characteristics of a wing with 56 deg lealing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p.11 N92-13054	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175}
SACHSE, GLEN W Venturi air-p** vacuum ejectors for high-volume atmosphenc sar-p**ng on aircraft platforms [NASA-TP-3183] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] P 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature: -ffects on flutter characteristics of a wing with 56 deg lea -ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] P 11 N92-13054 SANKARAN, SANDARA N.	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171] p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar-p-**ng on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature: /*fects on flutter characteristics of a wing with 56 deg leaing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28960	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} p 38 N92-16554 Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562
SACHSE, GLEN W Venturi air-je ^{*†} vacuum ejectors for high-volume atmosphenc sar peng on aircraft platforms [NASA-TP-3183 p.11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p.6 N91-27140 SANDFORD, MAYNAL C. Planform curvature: effects on flutter characteristics of a wing with 56 deg lea eng-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p.11 N92-13054 SANKARRA, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD Q. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B.	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171] p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer
SACRSE, GLEN W Ventun iarry-1 vacuum ejectors for high-volume atmosphenc sar of-ing on aircraft platforms [NASA-TP-3183 p.11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p.6 N91-27140 SANDFORD, MAYNAL C. Planform curvature iffects on flutter characteristics of a wing with 56 deg lealing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p.11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14AI-21Nb alloy [NASA-TP-3109] p.23 N91-20266	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} P 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest p 38 N92-16554 Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti-2 and concentric muscle performance following
SACHSE, GLEN W Venturi air-je ^{*†} vacuum ejectors for high-volume atmosphenc sar peng on aircraft platforms [NASA-TP-3183 p.11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p.6 N91-27140 SANDFORD, MAYNA: C. Planform curvature: effects on flutter characteristics of a wing with 56 deg lea eng-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p.11 N92-13054 SANKARRA, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anenometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-39999	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest p. 38 N92-16554 Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccentic and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G.
SACHSE, GLEN W Venturi air-p st vacuum ejectors for high-volume atmosphenc sar p st ng on aircraft platforms [NASA-TP-3183 p 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature Mects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANRARAN N.	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiec output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} p 38 N92-16554 Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562 Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} p 39 N92-17645 SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36
SACHSE, GLEN W Venturi air-jo*t vacuum ejectors for high-volume atmosphenc sar poing on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature infects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANKARAN N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171] p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] Reliability of a Shuttle reaction timer [NASA-TP-3176] p 40 N92-16554 Reliability of a Shuttle reaction timer [NASA-TP-3176] p 40 N92-16562 Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness [NASA-TP-3182] p 39 N92-17645 SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar-p-**ng on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature: "fects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANBARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAYELY, ROBERT T.	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-3022} P 19 N92-10079
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar p-ing on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature: -ffects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARAN. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANNARAN. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin. [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A.	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} P 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccentic and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIMALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-3022} SIMON, FREDERICK F.
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmosphenc sar p ⁻¹ ng on aircraft platforms [NASA-TP-3183] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature infects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANDARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90)	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28960 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3166] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] p 49 N92-21874 SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171] p 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} p 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} p 38 N92-16554 Reliability of a Shuttle reaction timer {NASA-TP-3176} p 40 N92-16562 Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} p 39 N92-17645 SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 saliplane at low and very high angles of attack {NASA-TP-3022} p 12 N91-10079 SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmosphenc sar p ⁻¹ ng on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature iffects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Ai-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANDARA N. Oxidation characteristics of Ti-25Ai-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAYELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p. 41 N91-20641	Nimbus-7 TOMS Antarctic ozone atlas August - December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} P 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccentic and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM_ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-322} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} P 27 N92-11299
SACHSE, GLEN W Venturi air-jo*t vacuum ejectors for high-volume atmosphenc sar-poing on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature infects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANRARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAYELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p. 41 N91-20641 Fourth Annual Workshop on Space Operations	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A.	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} P 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-3022} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} SIMONSEN, LISA C.
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar p-ing on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature: -ffects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANNARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAYELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p. 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90)	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Full titlization during exercise after 7 days of bed rest [NASA-TP-3175] Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccentic and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 saiplane at low and very high angles of attack {NASA-TP-3022} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} P 27 N92-11299 SIMONSEN, LISA C. Radiation protection for human missions to the Moon
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmospheric sar-p ⁻¹ ng on aircraft platforms [NASA-TP-3183 p 11 N92-20546] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature iffects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANDARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A.	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti-2 and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-322} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} \$NASA-TP-3170}
SACHSE, GLEN W Venturi air-jo** vacuum ejectors for high-volume atmosphenc sar poing on aircraft platforms [NASA-TP-3183 p. 11 N92-20546] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140] SANDFORD, MAYNAI C. Planform curvature offects on flutter characteristics of a wing with 56 deg lea ong-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANBARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p. 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p. 41 N91-20702 SCALLION, WILLIAM I.	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} P 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3176] Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-3022} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3179} P 27 N92-11299 SIMONSEN, LISA C. Radiation protection for human missions to the Moon and Mars {NASA-TP-3079} P 50 N91-17999
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmospheric sar-p ⁻¹ ng on aircraft platforms [NASA-TP-3183 p 11 N92-20546] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature iffects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANDARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436	SHRADER, CHRIS R. The Compton Observatory Science Workshop {\ASA-CP-3137} \$HUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {\ASA-TP-3171} \$ICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {\ASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest [\ASA-TP-3175] Reliability of a Shuttle reaction timer {\ASA-TP-3182} Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {\ASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1:36 saiplane at low and very high angles of attack {\ASA-TP-3022} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {\ASA-TP-3170} \$\alpha\$ 27 \ \text{N92-11299} \$\alpha\$ 188 C. Radiation protection for human missions to the Moon and Mars {\ASA-TP-3079} \$\alpha\$ 0 \ \text{N91-17999} Transport methods and interactions for space
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar oring on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature infects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANKARAN. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p. 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p. 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28960 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} P 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti-2 and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 saliplane at low and very high angles of attack {NASA-TP-3022} P 32 N92-10079 SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} P 27 N92-11299 SIMONSEN, LISA C. Radation protection for human missions to the Moon and Mars {NASA-TP-3079} Fransport methods and interactions for space radiations
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmospheric sar p ⁻¹ mg on aircraft platforms [NASA-TP-3183 p 11 N92-20546] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140] SANOFORD, MAYNAI C. Planform curvature infects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054] SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266] SANKARAN, SANDARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility Workshop	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28960 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 SHALKHAUSER, MARY JO Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications	SHRADER, CHRIS R. The Compton Observatory Science Workshop {\ASA-CP-3137} \$HUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {\ASA-TP-3171} \$ICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {\ASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest [\ASA-TP-3175] Reliability of a Shuttle reaction timer {\ASA-TP-3182} Eccenti.: and concentric muscle performance following 7 days of simulated weightlessness {\ASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1:36 saiplane at low and very high angles of attack {\ASA-TP-3022} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {\ASA-TP-3170} \$\alpha\$ 27 \ \text{N92-11299} \$\alpha\$ 188 C. Radiation protection for human missions to the Moon and Mars {\ASA-TP-3079} \$\alpha\$ 0 \ \text{N91-17999} Transport methods and interactions for space
SACHSE, GLEN W Venturi air-pt vacuum ejectors for high-volume atmospheric sar pting on aircraft platforms. [NASA-TP-3183] SALAS, MANUEL L Shock wave in inaction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAL C. Planform curvature infects on flutter characteristics of a wing with 56 deg lear-ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Tr-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANDARA N. Oxidation characteristics of Tr-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP -31] p 13 N91-24211 SCANLON, ARLES H. Fight tests with a data link used for air traffic control	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-3997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubbs [NASA-TP-3081] p 25 N91-27436 SHALKHAUSER, MARY JO Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications satelitite network	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} P 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} P 38 N92-16553 Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti-: and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} P 39 N92-17645 SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 sailplane at low and very high angles of attack {NASA-TP-3022} P 12 N91-10079 SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} P 27 N92-11299 SIMONSEN, LISA C. Radiation protection for human missions to the Moon and Mars {NASA-TP-3079} Transport methods and interactions for space radiations {NASA-TP-1571} P 51 N92-15956
SACHSE, GLEN W Venturi air-p ⁻¹ vacuum ejectors for high-volume atmosphenc sar p ⁻¹ ng on aircraft platforms [NASA-TP-3183 p. 11 N92-20546 SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p. 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature Mects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p. 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p. 23 N91-20266 SANKARAN, SANRARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p. 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p. 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p. 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP 7.31] p. 13 N91-24211 SCANLON, ***ARLES H. Flight tests with a data link used for air traffic control information exchange	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-TP-2997] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 SHALKHAUSER, MARY JO Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications satellite network [NASA-TP-3001] p 16 N92-19762	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137] SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest {NASA-TP-3175} Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccenti-2 and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 saliplane at low and very high angles of attack {NASA-TP-3022} SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} \$NEDERICK F. Radiation protection for human missions to the Moon and Mars {NASA-TP-3079} Transport methods and interactions for space radiations {NASA-RP-1257} MIRACAL A mission radiation calculation program for analysis of lunar and interplanetary missions {NASA-TP-3211} P 51 N92-25100
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar-p-**ng on aircraft platforms [NASA-TP-3183 p 11 N92-20546] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature rects on flutter characteristics of a wing with 56 deg lea ring-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANBARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP right tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 SHALKHAUSER, MARY JO Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications satellite network [NASA-TP-32011] p 16 N92-19762	SHRADER, CHRIS R. The Compton Observatory Science Workshop {\ASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {\ASA-TP-3171} \$\text{SICONOLF1}, \text{STEVEN F.} Evaluation of noninvasive cardiac output methods during exercise {\ASA-TP-3174} \$\text{FUSA-TP-3174} \$\text{P of the Mark J.} Fuel utilization during exercise after 7 days of bed rest [\ASA-TP-3175] Reliability of a Shuttle reaction timer {\ASA-TP-3176} \$\text{P of the Mark J.} \$\te
SACHSE, GLEN W Venturi air-p** vacuum ejectors for high-volume atmosphenc sar p**ng on aircraft platforms [NASA-TP-3183] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] P 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature iffects on flutter characteristics of a wing with 56 deg lea ing-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] P 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Tr-14Al-21Nb alloy [NASA-TP-3109] P 23 N91-20266 SANKARAN, SANDARA N. Oxidation characteristics of Tr-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-309] P 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] P 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] P 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP 31] P 13 N91-24211 SCANLON, ARLES H. Fight tests with a data link used for air traffic control information exchange [NASA-TP-3135] P 11 N91-31143	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine vanes [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., till Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-3997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-TP-3098] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 SHALKHAUSER, MARY JO Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications satellite network [NASA-TP-3201] p 16 N92-19762 SHARP, G. RICHARD A new fabrication method for precision antenna	SHRADER, CHRIS R. The Compton Observatory Science Workshop {NASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {NASA-TP-3171} P 30 N92-23115 SICONOLFI, STEVEN F. Evaluation of noninvasive cardiac output methods during exercise {NASA-TP-3174} Fuel utilization during exercise after 7 days of bed rest [NASA-TP-3175] Reliability of a Shuttle reaction timer {NASA-TP-3176} Eccentic and concentric muscle performance following 7 days of simulated weightlessness {NASA-TP-3182} SIM, ALEX G. Flight characteristics of a modified Schweizer SGS1-36 saliplane at low and very high angles of attack {NASA-TP-3022} P 32 N92-10079 SIMON, FREDERICK F. Modeling of the heat transfer in bypass transitional boundary-layer flows {NASA-TP-3170} P 27 N92-11299 SIMONSEN, LISA C. Radiation protection for human missions to the Moon and Mars {NASA-TP-3079} Transport methods and interactions for space radiations {NASA-TP-3079} Transport methods and interaction for program for analysis of lunar and interplanetary missions {NASA-TP-3211} P 51 N92-25100 SINGER, BART A. A weakly nonlinear theory for wave-vortex interactions
SACHSE, GLEN W Venturi air-j-** vacuum ejectors for high-volume atmosphenc sar-p-**ng on aircraft platforms [NASA-TP-3183 p 11 N92-20546] SALAS, MANUEL L Shock wave in raction with an abrupt area change [NASA-TP-3113] p 6 N91-27140 SANDFORD, MAYNAI C. Planform curvature rects on flutter characteristics of a wing with 56 deg lea ring-edge sweep and panel aspect ratio of 1.14 [NASA-TP-3116] p 11 N92-13054 SANKARAN, SANDARA N. Surface effects on hydrogen permeation through Ti-14Al-21Nb alloy [NASA-TP-3109] p 23 N91-20266 SANKARAN, SANBARA N. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy [NASA-TP-3044] p 22 N91-13522 SAVELY, ROBERT T. Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-1] p 41 N91-20641 Fourth Annual Workshop on Space Operations Applications and Research (SOAR 90) [NASA-CP-3103-VOL-2] p 41 N91-20702 SCALLION, WILLIAM I. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP right tests with a data link used for air traffic control information exchange [NASA-TP-3135] p 11 N91-31143	Nimbus-7 TOMS Antarctic ozone atlas August December 1990 [NASA-RP-1264] p 35 N91-26651 SCOTTI, STEPHEN J. Numerical studies of convective cooling for a locally heated skin [NASA-TP-3100] p 26 N91-22509 A simplified method for thermal analysis of a cowl leading edge subject to intense local shock-wave-interference heating [NASA-TP-3167] p 27 N92-24797 SEASHOLTZ, RICHARD G. Laser anemometer measurements and computations in an annular cascade of high turning core turbine varies [NASA-TP-3252] p 8 N92-28980 SEKAR, B. Direct simulation of high-speed mixing layers [NASA-TP-3186] p 8 N92-30909 SELLERS, WILLIAM L., III Detailed flow-field measurements over a 75 deg swept delta wing [NASA-TP-2997] p 4 N91-18030 SHABBIR, A. Workshop on Engineering Turbulence Modeling [NASA-CP-10088] p 27 N92-24514 SHALKHAUSER, KURT A. A three-dimensional finite-element thermal/mechanical analytical technique for high-performance traveling wave tubes [NASA-TP-3081] p 25 N91-27436 SHALKHAUSER, MARY JO Destination-directed, packet-switching architecture for 30/20-GHz FDMA/TDM geostationary communications satellite network [NASA-TP-32011] p 16 N92-19762	SHRADER, CHRIS R. The Compton Observatory Science Workshop {\ASA-CP-3137} SHUART, MARK J. Experimental behavior of graphite-epoxy Y-stiffened specimens loaded in compression {\ASA-TP-3171} \$\text{SICONOLF1}, \text{STEVEN F.} Evaluation of noninvasive cardiac output methods during exercise {\ASA-TP-3174} \$\text{FUSA-TP-3174} \$\text{P of the Mark J.} Fuel utilization during exercise after 7 days of bed rest [\ASA-TP-3175] Reliability of a Shuttle reaction timer {\ASA-TP-3176} \$\text{P of the Mark J.} \$\te

p.7 N92-19175

SINGH, JAG J.	SPRINKLE, DANNY R.	STONE, NOBIE H. Current Collection from Space Plasmas
An investigation of microstructural characteristics of	Investigation of microstructural changes in polyetherether-ketone films at cryogenic temperatures by	[NASA-CP-3089] p 46 N91 17713
contact-lens polymers (NASA-TP-3034) p 21 N91-13492	positron lifetime spectroscopy	STREETT, CRAIG L.
Investigation of microstructural changes in	[NASA-TP-3064] p 21 N91-18216	Validation of three-dimensional incompressible spatial
polyetherether-ketone films at cryogenic temperatures by	Feasibility study of a low-energy gamma ray system for	direct numerical simulation code. A comparison with linear
positron lifetime spectroscopy	measuring quantity and flow rate of slush hydrogen	stability and parabolic stability equation theories for
NASA-TP-3064] p 21 N91-18216	[NASA-TP-3150] p 19 N92-25147	boundary-layer transition on a tlaf plate
Low-energy positron flux generator for microstructural	SQUIRES, WILLIAM	{NASA-TP-3205} p.8 N92 30295
characterization of thin films	Techniques for determination of impact forces during	STRIEPE, SCOTT A.
[NASA-TP-3074] p 27 N91-22538	walking and running in a zero-G environment	MIRACAL A mission radiation calculation program for
Positron lifetime measurements in chiral nematic liquid	[NASA-TP-3159] p 38 N92-17022	analysis of lunar and interplanetary missions
crystals	SQUIRES, WILLIAM G.	[NASA-TP-3211] p.51 N92-25100
[NASA-TP-3122] p.46 N92-10677	A method of evaluating efficiency during space-suited	SUDER, KENNETH L
Feasibility study of a low-energy gamma ray system for	work in a neutral buoyancy environment	Design and performance of controlled-diffusion stator
measuring quantity and flow rate of slush hydrogen	[NASA-TP-3153] p.40 N92-19772	compared with original double-circular-arc stator
(NASA-TP-3150) p 19 N92-25147	ST.CLAIR, TERRY L.	[NASA TP-2852] p 12 N92 22863
SINGH, NAGENDRA	Investigation of microstructural changes in	SULENTIC, JACK W.
Current Collection from Space Plasmas	polyetherether ketone films at cryogenic temperatures by	Paired and Interacting Galaxies International
[NASA-CP-3089] p.46 N91-17713	positron lifetime spectroscopy	Astronomical Union Colloquium No. 124 [NASA-CP-3098] p.49 N91 16858
SLEIGHT, DAVID W.	[NASA-TP-3064] p.21 N91-18216	SULLIVAN, BRENDA M.
On-orbit structural dynamic performance of a 15-meter	Low-energy positron flux generator for microstructural	A loudness calculation procedure applied to shaped
microwave radiometer antenna (NASA-TP-3041) p.16 N91-17114	characterization of thin films [NASA-TP-3074] p 27 N91-22538	sonic booms
,		[NASA-TP-3134] p.45 N92-11765
SMITH, CHARLES A.	STALLINGS, ROBERT L. JR.	SWANSON, G. R.
Aeroacoustic and aerodynamic applications of the theory	Measurements of forces, moments, and pressures on	Applications of FEM and BEM in two-dimensional
of nonequilibrium thermodynamics [NASA-TP-3118] p.26 N91-25352	a generic store separating from a box cavity at supersonic	fracture mechanics problems
(speeds [NASA-TP-3110] p.6 N92-10005	[NASA-TP-3277] p.31 N92-31280
SMITH, DONALD L. Properties of three graphite/toughened resin		SYDNOR, RICHARD L.
3 10	STANLEY, DOUGLAS O. Parametric trade studies on a Shuttle 2 launch system	The 22nd Annual Precise Time and Time Interval (PTTI)
composites [NASA-TP-3102] p 21 N92-10067	architecture	Applications and Planning Meeting
([NASA-TP-3059] p 14 N91-18180	[NASA-CP-3116] p 44 N91-25755
SMITH, G. LOUIS Limb-darkening functions as derived from along-track	STARNES, JAMES H., JR.	Proceedings of the 23rd Annual Precise Time and Time
operation of the ERBE scanning radiometers for August	Computational Structures Technology for Airframes and	Interval (PTTI) Applications and Planning Meeting
1985	Propulsion Systems	[NASA-CP-3159] p 44 N92-33350
[NASA-RP-1243] p 34 N91-14683	[NASA-CP-3142] p 31 N92-25911	SYDOW, P. DANIEL
Atlas of wide-field-of-view outgoing longwave radiation	Eighth DOD/NASA/FAA Conference on Fibrous	Experimental behavior of graphite-epoxy Y-stiffened
derived from Nimbus 7 Earth radiation budget data set.	Composites in Structural Design, part 1	specimens loaded in compression
November 1985 to October 1987	[NASA-CP-3087-PT-1] p 22 192-32513	[NASA-TP-3171] D 30 N92-23115
[NASA-RP-1261] p 35 N91-24719	Eighth DOD/NASA/FAA Conference on Fibrous	
SMITH, LEIGH ANN	Composites in Structural Design, part 2	-
A method for the design of transonic flexible wings	[NASA-CP-3087-PT-2] p 22 N92-32574	Į.
(NASA-TP-3045) p 10 N91-14323	STARR, D. OC.	
Applications of a direct/sterative design method to	The role of water vapor in climate. A strategic research	TAKAHASHI, R. K.
complex transonic configurations	plan for the proposed GEWEX water vapor project	NACA 0015 wing pressure and trailing vortex
	(GVaP)	
		measurements
[NASA-TP-3234] D 8 N92-33484	[NASA-CP-3120] p 35 N91-25556	[NASA-TP-3151] p.6 N92-10981
(NASA-TP-3234) p.8 N92-33484 SMITH, R. E.	[NASA:CP:3120] p.35 N91-25556 STASSINOPOULOS, E. G.	[NASA-TP-3151] p.6 N92-10981 TALAY, THEODORE A.
[NASA-TP-3234] D 8 N92-33484	[NASA-CP-3120] p.35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment	[NASA-TP-3151] p. 6 N92-10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system.
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space	[NASA-TP-3151] p.6 N92 (1981) TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space applications	[NASA-TP-3151] p.6 N92 (1981) TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91 (1818)
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p.8 N92-29625	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A.
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p.8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III	[NASA-TP-3151] p.6 N92 30981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91 18180 TANNER, JOHN A. Computational methods for trictionless contact with
[NASA-TP-3234] p 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and generation [NASA-CP-10092] p 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91 18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires.
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and generation [NASA-CP-10092] p.8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-3143] p.42 N92-24397 SMITH, ROBERT E., JR.	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tres [NASA-TP-3073] p.3 N91-22576
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E.	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J.
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p.8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-3143] p.42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91 18180 TANNER, JOHN A. Computational methods for trictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit. The results of science
[NASA-TP-3234] p.8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p.8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steening Committee [NASA-CP-3143] p.42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p.26 N92-10161	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit. The results of science workshops held at NASA Ames Research Center.
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T.	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conterence Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit. The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p.41 N91-14725
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavilies	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. HI Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A. Computational methods for trictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p.41 N91-14725 TATRO, D.
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91 18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p.41 N91 14725 TATRO, D. Responses of women to orthostatic and exercise
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conterence Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tres [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit. The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p.41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses.
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Contenence Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991	[NASA-TP-3151] p. 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p. 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p. 30 N91-22576 TARTER, J. Exobiology in Earth orbit. The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p. 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p. 37 N91-19711
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070	[NASA-TP-3151] p.6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p.14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tres [NASA-TP-3073] p.30 N91-22576 TARTER, J. Exobiology in Earth orbit. The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p.41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses.
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A.	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of fest-section inserts for the Ames 80-	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, pad 1 [NASA-CP-10057-PT-1] p 16 N91-18186
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-1092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steening Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Contenence Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tres [NASA-TP-3073] p 30 N91-22576 TATER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45 N91-19824	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conterence Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G.	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires (NASA-TP-3073) p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center (NASA-SP-500) p 41 N91-14725 TARTO, D. Responses of women to orthostatic and exercise stresses (NASA-TP-3043) p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gind generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gind Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft intenor Noise Workshop	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91 18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TATER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91 14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91 19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91 18186 The 5th Annual NASA Spacecraft Control Laboratory
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3011] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavifies (NASA-TP-3052) p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model:	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer fllows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91 18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91 14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91 19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91 18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Experiment (SCOLE) Workshop, part 2
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-1092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-21828	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conterence Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F.	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gind generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gind Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-21828 SOFFEN, GERALD	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STEVELE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear bres [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-19828 SOFFEN, GERALD Biological Life Support Technologies Commercial	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-1092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conterence Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91 18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91 14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91 19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91 18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36 N91-13842	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STEINGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-3051] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051]	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-1005-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3011] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36 N91-13842	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3103] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-2231 TELESCO, C. M.
[NASA-TP-3234] p. 8 N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8 N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42 N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26 N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25 N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45 N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45 N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45 N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36 N91-13842	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3770] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A comparison of airborne wake vortex detection measurements with values predicted from potential	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91 18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91 22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91 14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91 19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91 18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91 19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91 22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-1] p 17 N91 22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-1] p 17 N91 22307 TELESCO, C. M. Paired and interacting Galaxies international
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of fest-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies. Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, p. 71.1	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STEQUE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-3051] p 36 N91-10574 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TATER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-1005-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-1005-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 Funda and interacting Galaxies international Astronomical Union Colloquium No 124
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Defection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.rd.1 [NASA-CP-10050-PT-1] p. 9. N91-11682	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear bres [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems. part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 19 N91-16858
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steening Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-19824 SOFFEN, GERALD Biological Life Support Technologies: Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Aurborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p1.1 [NASA-CP-10050-PT-1] p. 9. N91-11682 Arborne Wind Shear Detection and Warning Systems	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STEQUE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-3051] p 36 N91-10574 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-2231 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 49 N91-16858 TETER, JOHN E., JR.
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Defection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.rd.1 [NASA-CP-10050-PT-1] p. 9. N91-11682	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STEGLER, JAMES O.	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-13098] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.zr. 1. [NASA-CP-10050-PT-1] p. 9. N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.zr. 2.	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness Into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STIEGLER, JAMES O. National Educators' Wc kshop: Update 1991 Standard Experiments in Engineering Materials Science and Technology	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear bres [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-10143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model: [NASA-TP-3040] p. 45. N91-19828 SOFFEN, GERALD Biological Life Support Technologies. Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, p.z1.1 [NASA-CP-10050-PT-2] p. 9. N91-11682 NASA-CP-10050-PT-2] p. 9. N91-11682	[NASA-CP-3120] p 35 N91-25556 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STERUE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft intenor Noise Workshop [NASA-CP-3051] p 36 N91-10574 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc ishop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-2231 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Gnd Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies. Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers: and Technologists: Conference, p.z.1.1 [NASA-CP-10050-PT-1] p.9. N91-11682 SPERA, DAVIO A.	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A comparison of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc Ishop: Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orfhostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-1] p 17 N91-2231 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment transiation aid cart. [NASA-TP-3084]
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel INASA-TP-30201 p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies. Commercial Opportunities. [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Aurborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.r.1.1 [NASA-CP-10050-PT-1] p. 9. N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.r.1.2 [NASA-CP-10050-PT-2] p. 9. N91-11695 SPERA, DAVID A. Structural properties of laminated Douglas fir/epoxy	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc kshop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 STOCK, LARRY V. Inertial oscillation of a vertical rotating draft with	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear bres [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22331 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment transiation aid cart [NASA-CP-3084] p 29 N91-21556
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-100t wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Arborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.p.1.1 [NASA-CP-10050-PT-1] p. 9. N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.at.2 [NASA-CP-10050-PT-2] p. 9. N91-11695 SPERA, DAVIO A. Structural properties of laminated Douglas fir/epoxy composite material	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STERIE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-3051] p 36 N91-10574 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc Ishop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 STOCK, LARRY V. Inertial oscillation of a vertical rotating draft with application to a supercell storm	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-2307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-2331 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3084] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart [NASA-TP-3084] p 29 N91-21556
SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steening Committee [NASA-CP-1031] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3052] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-foot wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model: [NASA-TP-3030] p. 45. N91-19824 Sopfen, GERALD Biological Life Support Technologies. Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Detection and Warning Systems. Second Combined Manufacturers' and Technologists' Conference, p.r.1. [NASA-CP-10050-PT-2] p. 9. N91-11682 Nicking Proposition of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p. 20. N91-10127	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Interior Noise Workshop [NASA-CP-3103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A comparison of airborne wake vortex detection measurements with values predicted from potential theory [NASA-CP-3125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc Ishop: Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 STOCK, LARRY V. Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3200] p 36 N92-33482	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-1] p 17 N91-2231 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment transiation aid cart. {NASA-TP-3084} THOMAS, DONALD A. The microgravity environment of the Space Shuttle Columbia middeck during STS-32
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies. Commercial Opportunities. [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Aurborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.r.1.1 [NASA-CP-10050-PT-1] p. 9. N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.r.1.2 [NASA-CP-10050-PT-2] p. 9. N91-11695 SPERA, DAVID A. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p. 20. N91-10127 SPERA, DAVID A. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p. 20. N91-10127	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-CP-31125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc ishop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 STOCK, LARRY V. Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-CP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart {NASA-CP-30981} p 29 N91-21556 THOMAS, DONALD A. The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-CP-3140] p 48 N92-31930
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and gnd generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies Commercial Opportunities [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p. 21. 1 [NASA-CP-10050-PT-1] p.9. N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p. 21. 2 [NASA-CP-10050-PT-2] p.9. N91-11695 SPERA, DAVID A. Structural properties of laminated Douglas fir/epoxy composite material [NASA RP-1236] p. 20. N91-10127 SPEETTSTOESSER, W. R. Wake geometry effects on rotor blade-vortex interaction	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L., III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STERIE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3123] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-3051] p 36 N91-10574 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-TP-3125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc Ishop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 STOCK, LARRY V. Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-TP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with application to a supercell storm Video supplement to	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear bres [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-1] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-3098] p 19 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart [NASA-CP-3084] p 29 N91-21556 THOMAS, DONALD A. The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-TP-3140] p 48 N92-11930 The microgravity environment of the Space Shuttle
[NASA-TP-3234] p. 8. N92-33484 SMITH, R. E. NASA Workshop on future directions in surface modeling and grid generation [NASA-CP-10092] p. 8. N92-29625 SMITH, ROBERT E. Software Surface Modeling and Grid Generation Steering Committee [NASA-CP-3143] p. 42. N92-24397 SMITH, ROBERT E., JR. Numerical analysis and simulation of an assured crew return vehicle flow field [NASA-TP-3101] p. 26. N92-10161 SODERMAN, PAUL T. Flow-induced resonance of screen-covered cavities [NASA-TP-3052] p. 25. N91-15499 J-85 jet engine noise measured in the ONERA S1 wind tunnel and extrapolated to far field [NASA-TP-3053] p. 45. N91-19823 Large-scale aeroacoustic research feasibility and conceptual design of test-section inserts for the Ames 80-by 120-1001 wind tunnel [NASA-TP-3020] p. 45. N91-19824 Acoustic and aerodynamic study of a pusher-propeller aircraft model [NASA-TP-3040] p. 45. N91-21828 SOFFEN, GERALD Biological Life Support Technologies. Commercial Opportunities. [NASA-CP-3094] p. 36. N91-13842 SPADY, AMOS A., JR. Aurborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.r.1.1 [NASA-CP-10050-PT-1] p. 9. N91-11682 Airborne Wind Shear Detection and Warning Systems Second Combined Manufacturers' and Technologists' Conference, p.r.1.2 [NASA-CP-10050-PT-2] p. 9. N91-11695 SPERA, DAVID A. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p. 20. N91-10127 SPERA, DAVID A. Structural properties of laminated Douglas fir/epoxy composite material [NASA-RP-1236] p. 20. N91-10127	[NASA-CP-3120] p 35 N91-25566 STASSINOPOULOS, E. G. Shortcomings in ground testing, environment simulations, and performance predictions for space applications [NASA-TP-3217] p 23 N92-22593 STECHER, JOSEPH L. III Sixteenth Space Simulation Conference Confirming Spaceworthiness into the Next Millennium [NASA-CP-3096] p 17 N91-19126 STEEVE, B. E. Applications of FEM and BEM in two-dimensional fracture mechanics problems [NASA-TP-3277] p 31 N92-31280 STENGLE, THOMAS Flight Mechanics/Estimation Theory Symposium, 1990 [NASA-CP-3102] p 14 N91-17073 Flight Mechanics/Estimation Theory Symposium, 1991 [NASA-CP-3102] p 14 N92-14070 STEPHENS, CRAIG A. Modeling of the heat transfer in bypass transitional boundary-layer flows [NASA-TP-3170] p 27 N92-11299 STEPHENS, DAVID G. Fourth Aircraft Intenor Noise Workshop [NASA-CP-10103] p 45 N92-32948 STEWART, DONALD F. Workshop on Exercise Prescription for Long-Duration Space Flight [NASA-CP-3051] p 36 N91-10574 STEWART, ERIC C. A companson of airborne wake vortex detection measurements with values predicted from potential theory [NASA-CP-31125] p 10 N92-10994 STEGLER, JAMES O. National Educators' Wc ishop Update 1991 Standard Experiments in Engineering Materials Science and Technology [NASA-CP-3151] p 24 N92-30263 STOCK, LARRY V. Inertial oscillation of a vertical rotating draft with application to a supercell storm [NASA-CP-3230] p 36 N92-33482 Inertial oscillation of a vertical rotating draft with	[NASA-TP-3151] p 6 N92 10981 TALAY, THEODORE A. Parametric trade studies on a Shuttle 2 launch system architecture [NASA-TP-3059] p 14 N91-18180 TANNER, JOHN A. Computational methods for frictionless contact with application to Space Shuttle Orbiter nose-gear tires [NASA-TP-3073] p 30 N91-22576 TARTER, J. Exobiology in Earth orbit The results of science workshops held at NASA Ames Research Center [NASA-SP-500] p 41 N91-14725 TATRO, D. Responses of women to orthostatic and exercise stresses [NASA-TP-3043] p 37 N91-19711 TAYLOR, LAWRENCE W., JR. The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 1 [NASA-CP-10057-PT-1] p 16 N91-18186 The 5th Annual NASA Spacecraft Control Laboratory Experiment (SCOLE) Workshop, part 2 [NASA-CP-10057-PT-2] p 17 N91-19122 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 1 [NASA-CP-10065-PT-2] p 17 N91-22307 Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, part 2 [NASA-CP-10065-PT-2] p 17 N91-22307 TELESCO, C. M. Paired and interacting Galaxies international Astronomical Union Colloquium No 124 [NASA-CP-3098] p 49 N91-16858 TETER, JOHN E., JR. Determination of the flight hardware configuration of an energy absorbing attenuator for the proposed Space Station crew and equipment translation aid cart {NASA-CP-30981} p 29 N91-21556 THOMAS, DONALD A. The microgravity environment of the Space Shuttle Columbia middeck during STS-32 [NASA-CP-3140] p 48 N92-31930

0.34 N91-21641

WALTER, LOUIS S.

Volcanism-Climate interactions [NASA-CP-10062]

. 2.700		
THOMAS, JAMES L.		
Navier-Stokes and Euler solution supersonic delta wings. A corre		
[NASA-TP-3035]	p 4	
THOMPSON, BRAD G.		
Controlled Ecological Life Suppo Artificial Ecosystems	rt Systems	Natural and
(NASA-CP-10040)	p 40	N91-24744
THOMPSON, RICHARD A.	•	
Calculations and curve fits of transport properties for equilibrium		
[NASA-RP-1260]	p 26	N92-11285
THRONSON, HARLEY A., JR.		
The interstellar Medium in Extern of contributed papers	al Galaxies	: Summaries
[NASA-CP-3084]	p 49	N91-14100
TIBBITTS, THEODORE W.	_	
Controlled Ecological Life Suppo Artificial Ecosystems	rt Systems	Natural and
[NASA-CP-10040]	p 40	N91-24744
TIELENS, ALEXANDER G. G. M.		
Interstellar Dust. Contributed Pa	pers p 48	N91-14897
(NASA-CP-3036) TILTON, JAMES C.	₽ 40	1491-14097
Multisource Data Integration in F		
[NASA-CP-3099]	p 32	N91-15615
Space and Earth Science Workshop	Data (Compression
[NASA-CP-3130]	p 41	N92-12425
TOKAZ, J. C.		
Resource envelope concepts for (NASA-TP-3139)	r mission p 15	
TOLSON, CAROL J.	P .0	
Mission description and in-flight		
instruments on ERBS and NOAA 9		
	Sharacia	it, intoversion
1984 - January 1986 [NASA-RP-1256]	•	N92-10208
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh	p 32 nt operatio	N92-10208
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA	p 32 nt operatio	N92-10208
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh	p 32 nt operatio	N92-10208
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R.	p 32 it operatio 9, and p 32	N92-10208 ns of ERBE NOAA 10 N92-32127
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the for	p 32 it operatio 9, and p 32	N92-10208 ns of ERBE NOAA 10 N92-32127
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the for in nitrogen tetroxide oxidizer	p 32 it operatio 9, and p 32 rmation of	N92-10208 ns of ERBE NOAA 10 N92-32127
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS. NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the for in nitrogen tetroxide oxidizer (NASA-TP-3107] TOWNSEND, LAWRENCE W.	p 32 it operatio 9, and p 32 rmation of p 26	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foil in introgen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of h	p 32 it operatio 9, and p 32 rmation of p 26	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the for in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations	p 32 it operatio 9, and p 32 rmation of p 26 neavy ions	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foil in introgen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of h	p 32 int operatio 9. and p 32 irrination of p 26 neavy ions p 46	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of h correlations [NASA-TP-306] Cellular track model of biological cell cultures from galactic cosmic	p 32 It operatio 9, and p 32 Imation of p 26 Imation on p 46 damage to	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 o mammalian
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foil in introgen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations [NASA-TP-3026] Celliular track model of biological cell cultures from galactic cosmic [NASA-TP-3055]	p 32 It operatio 9, and p 32 Imation of p 26 Reavy ions p 46 damage to rays p 50	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of h correlations [NASA-TP-306] Cellular track model of biological cell cultures from galactic cosmic	p 32 It operatio 9, and p 32 Imation of p 26 Reavy ions p 46 damage to rays p 50	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations [NASA-TP-306] Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits [NASA-TP-3098]	p 32 rmation of p 26 damage to rays p 50 pace Stati	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 o mammalian N91-16981 on Freedom N91-26107
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foil in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of hoorelations [NASA-TP-3026] Cellular track model of biological cell cultures from galactic cosmics [NASA-TP-3055] Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the gala-	p 32 rmation of p 26 reavy ions p 46 damage to rays p 50 pace State p 51 ctic heavy-	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 o mammalian N91-16981 on Freedom N91-26107
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations [NASA-TP-306] Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits [NASA-TP-3098]	p 32 rmation of p 26 reavy ions p 46 damage to rays p 50 pace State p 51 ctic heavy-	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 o mammalian N91-16981 on Freedom N91-26107
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foil in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of historical districtions [NASA-TP-3026] Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the galal equations with energy and spatial [NASA-TP-3112] Transport methods and interactions are controlled to the control of the galal equations with energy and spatial [NASA-TP-3112]	p 32 and p 32 mation of p 32 mation of p 26 heavy ions p 46 damage to rays p 50 pace Stati p 51 ctic heavy- coupling	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-19985 mammalian N91-16981 on Freedom N91-26107 ion transport
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS. NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer (NASA-RP-3107) TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations [NASA-TP-3026] Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the galaequations with energy and spatial (NASA-TP-3112) Transport methods and intradiations	p 32 and p 32 rmation of p 26 heavy ions p 46 damage to rays p 50 pace Stati p 51 ctic heavy- coupling p 44 eractions	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N91-26107 ion transport N92-13756 for space
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in introgen tetroxide oxidizer (NASA-TP-3107) TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of horizontal track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits (NASA-TP-3098) Benchmark solutions for the gala equations with energy and spatial (NASA-TP-3112) Transport methods and intradiations (NASA-RP-1257)	p 32 and p 32 mation of p 32 mation of p 26 damage to rays p 50 pace State p 15 ctic heavy- coupling p 44 eractions	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N91-26107 von transport N92-13756 for space N92-15956
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS. NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of hocorrelations [NASA-TP-306] Cellular track model of biological cell cultures from galactic cosmics [NASA-TP-3055] Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the galacquations with energy and spatial [NASA-TP-3112] Transport methods and intradiations [NASA-TP-1277] HZETRN A heavy ion/nucleon triadiations	p 32 and p 32 rmation of p 26 reavy ions p 46 damage to rays p 50 pace State p 51 ctic heavy- coupling p 44 eractions	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N91-26107 ion transport N92-13756 for space N92-15956 de for space
1984 - January 1986 [NASA-RP-1256] MISSION description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in introgen tetroxide oxidizer (NASA-RP-3107) TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations (NASA-TP-3026) Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits (NASA-TP-3098) Benchmark solutions for the galaequations with energy and spatial (NASA-TP-3112) Transport methods and intradiations (NASA-RP-1257) HZETRN A heavy ion/nucleon tradiations (NASA-TP-3146)	p 32 and p 32 mation of p 32 mation of p 26 damage to rays p 50 pace State p 15 ctic heavy- coupling p 44 eractions	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N91-26107 ion transport N92-13756 for space N92-15956 de for space
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in introgen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of hocorrelations [NASA-TP-3026] Cellular track model of biological cell cultures from galactic cosmic [NASA-TP-3055] Radiation risk predictions for Sorbits [NASA-TP-308] Benchmark solutions for the gala equations with energy and spatial [NASA-TP-3112] Transport methods and intradiations [NASA-RP-1257] HZETRN A heavy ion/nucleon tradiations [NASA-TP-3146] TRACY, M. 8.	p 32 Int operation 9, and p 32 Interpretation of p 26 Interpretation of p 26 Interpretation of p 46 Interpretation of p 50 Interpretation of p 51 Interpretation	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-16981 on Freedom N91-26107 ion transport N92-13756 for space N92-15956 de for space
1984 - January 1986 [NASA-RP-1256] MISSION description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in introgen tetroxide oxidizer (NASA-RP-3107) TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of it correlations (NASA-TP-3026) Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits (NASA-TP-3098) Benchmark solutions for the galaequations with energy and spatial (NASA-TP-3112) Transport methods and intradiations (NASA-RP-1257) HZETRN A heavy ion/nucleon tradiations (NASA-TP-3146)	p 32 and p 32 armation of p 26 aneavy ions p 46 damage to rays p 50 pace Stati p 51 ctic heavy-coupling p 44 eractions p 51 ansport co	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N91-26107 ion transport N92-13756 for space N92-15956 de for space N92-15959
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of horizontal track model of biological cell cultures from galactic cosmic (NASA-TP-3026) Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the gala equations with energy and spatial (NASA-TP-3112) Transport methods and intradiations [NASA-RP-1257] HZETRN A heavy ion/nucleon tradiations [NASA-TP-3146] TRACY, M. 8. Effects of yaw angle and frectangular-box cavities at subspeeds	p 32 Int operation 9, and p 32 Interpolation 9, and p 32 Interpolation 1, 26 Interpola	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N92-13756 for space N92-15956 de for space N92-15959 number on d transonic
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foil in nitrogen tetroxide oxidizer [NASA-RP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of historical continuities from galactic cosmics [NASA-TP-3026] Cellular track model of biological cell cultures from galactic cosmics [NASA-TP-3055] Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the galal equations with energy and spatial [NASA-TP-3112] Transport methods and intradiations [NASA-TP-3146] TRACY, M. 8. Effects of yaw angle and frectangular-box cavities at subspeeds [NASA-TP-3099]	p 32 Int operation 9, and p 32 Interpolation 9, and p 32 Interpolation 1, 26 Interpola	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 mammalian N91-16981 on Freedom N91-26107 ion transport N92-13756 for space N92-15956 de for space N92-15959
1984 - January 1986 [NASA-RP-1256] Mission description and in-fligh instruments on ERBS, NOAA spacecraft [NASA-RP-1279] TORRANCE, PAUL R. Saturation point model for the foi in nitrogen tetroxide oxidizer [NASA-TP-3107] TOWNSEND, LAWRENCE W. Inclusive inelastic scattering of horizontal track model of biological cell cultures from galactic cosmic (NASA-TP-3026) Cellular track model of biological cell cultures from galactic cosmic (NASA-TP-3055) Radiation risk predictions for Sorbits [NASA-TP-3098] Benchmark solutions for the gala equations with energy and spatial (NASA-TP-3112) Transport methods and intradiations [NASA-RP-1257] HZETRN A heavy ion/nucleon tradiations [NASA-TP-3146] TRACY, M. 8. Effects of yaw angle and frectangular-box cavities at subspeeds	p 32 and p 3	N92-10208 ns of ERBE NOAA 10 N92-32127 metal nitrate N91-24542 and nuclear N91-13985 o mammalian N91-16981 on Freedom N91-26107 ion transport N92-13756 do for space N92-15956 do for space N92-15959 number on d transonic

v		
VALLETTE, BRENDA J. Atlas of the Earth's radiation budge	ıtası	neasured by
Nimbus-7: May 1979 to May 1980		,
(NASA-RP-1263) VANDALSEM, W. R.	b 32	N91-24720
NASA Workshop on future directions	n surfe	ce modeling
and grid generation [NASA-CP-10092]	p 8	N92-29625
VERDERAIME, V. Plate and butt-weld stresses bey	ond e	ilastic limit,
material and structural modeling [NASA-TP-3075]	D 23	N91-16413
Structural deterministic safety factor	s sele	
and verification (NASA-TP-3203)	p 30	N92-19355
VERHOFF, VINCENT G.		
Three-dimensional laser window form INASA-RP-12801	nation p 14	N92-30307
VICROY, DAN D.	,	7132 00007
Airborne Wind Shear Detection and		
Third Combined Manufacturers' an Conference, part 2		ennologisis
[NASA-CP-10060-PT-2]	p 9	N91-24140
Airborne Wind Shear Detection and		
Third Combined Manufacturers' and Conference, part 1	0 100	nnologists
[NASA-CP-10060-PT-1]	р9	N91-24166
VILLARREAL, JAMES		. 147. 4 . 1
Proceedings of the Second Joint Tect on Neural Networks and Fuzzy Logic, v		
[NASA-CP-10061-VOL-1]		N91-21778
VILLARREAL, JAMES A.		
Proceedings of the Second Joint Tecl		
on Neural Networks and Fuzzy Logic, v [NASA-CP-10061-VOL-2]		N91-20811
VOELKER, L. S.		
Development of an integrated serose	rvoela	stic analysis
program and correlation with test data [NASA-TP-3120]	p 2	N91-26113
VOGEL, A. A.	PE	1431-20713
NASA Workshop on future directions in	n surfa	ce modeling
and gnd generation		N92-29625
(NASA-CP-10092) VOGEL, WOLFHARD J.	Po	1492-29025
Propagation effects for land mobile	satell	te systems.
Overview of experimental and modeling		
[NASA-RP-1274] VOGLER, WILLIAM A.	p 25	N92-20404
Static footprint local forces, areas.	and a	spect ratios
for three type 7 aircraft tires		
[NASA-TP-2983]	p 10	N91-17014
VOLK, TYLER Controlled Ecological Life Support Sy:	steme	Natural and
Artificial Ecosystems		· · cucial dire
[NASA-CP-10040]	p 40	N91-24744
VOORHIES, COERTE V.		

Steady motional induction of geomagnetic chaos

INASA-TP-3272-PT-1A1

Steady induction effects in geomagnetism Part 1A

p 34 N92-32655

WADE, LARRY O.			
Venturi air-jet vac	uum ejec	tors for	high-volume
atmospheric sampling	on aircraft	platforms	-
[NASA-TP-3183]		p 11	N92-20546
WAGGONER, E. G.			
Prediction of effects	of wing co	ontour mod	lifications on
low-speed maximum lift	and transc	onic perform	nance for the
EA-6B aircraft			
[NASA-TP-3046]		p 4	N91-10902

SCOTT nce Results 1988 1983 p 34 N91-10448 CHARD D.
p 34 N91-10448
CHARD D.
n of cloud detection instruments and
of laminar-flow leading-edge test articles
A Leading-Edge Flight-Test Program
(888) p 11 N91-24199
ORAH M.
tructural dynamic performance of a 15-meter
adiometer antenna
041) p 16 N91-17114
ERRYL A.
characteristics of Ti-25Al-10Nb-3V-1Mo
alloy
044) p 22 N91-13522
RVIN C.
eck benefits of integrated data link
ion
[219] p 10 N92-21459

WALTON, MARLEI Techniques for determination of impact forces during walking and running in a zero-G environment (NASA-TP-3159) p. 38 p 38 N92-17022 WANHAINEN, JOYCE S. A new fabrication method for precision antenna reflectors for space flight and ground test [NASA-TP-3078] p. p 17 N91-21185 WASZAK, MARTIN R. A methodology for computing uncertainty bounds of multivariable systems based on sector stability theory concepts [NASA-TP-3166] WATSON, R. T. The atmospheric effects of stratospheric aircraft. A topical review NASA-RP-1250 WATTS, G. Technique to eliminate computational instability in multibody simulations employing the Lagrange multiplier [NASA-TP-3220] p 42 N92-23432 p 42 N92-23432 WEAVER, WILLIAM L Mission description and in-flight operations of ERBE instruments on ERBS and NOAA 9 spacecraft, November 1984 - January 1986 p 32 N92-10208 [NASA-RP-1256] Mission description and in-flight operations of ERBE instruments on ERBS, NOAA 9, and NOAA 10 spacecraft INASA-RP-12791 p 32 N92-32127 WEILER, J. D. Resource envelope concepts for mission planning [NASA-TP-3139] p 15 N91-29209 WEILMUENSTER, K. JAMES Numerical analysis and simulation of an assured crew return vehicle flow field INASA-TP-31011 p 26 N92-10161 WESOKY, HOWARD L. The atmospheric effects of stratospheric aircraft. A first program report (NASA-RP-1272) p 33 N92-19121 WESSELMANN, GARY F. Influence of airfoil geometry on delta wing leading-edge vortices and vortex-induced aerodynamics at supersonic [NASA-TP-3105] WEST, PHILLIP A method of evaluating efficiency during space-suited work in a neutral buoyancy environment [NASA-TP-3153] p 40 N92-19772 WEYLAND, MARK Improvements in computational accuracy of BRYNTRN (a baryon transport code) [NASA-TP-3093] p 51 N91-23017 Radiation risk predictions for Space Station Freedom orbits [NASA-TP-3098] p 51 N91-26107 WEYLAND, MARK D. Analyses of risks associated with radiation exposure from past major solar particle events INASA-TP-31371 p 50 N91-31061 WHARTON, ROBERT A. JR. Fourth Symposium on Chemical Evolution and the Origin and Evolution of Life INASA-CP-31291 p.41 N92-13588 WHITE, ALLAN L Model reduction by trimming for a class of semi-Markov reliability models and the corresponding error bound p 43 N91-25741 WIEDEMANN, KARL E. Oxidation characteristics of Ti-25Al-10Nb-3V-1Mo intermetallic alloy p 22 N91-13522 WILCOX, FLOYD J., JR. Experimental investigation of porous-floor effects on cavity flow helds at supersonic speeds [NASA-TP-3032] p.5 N91-19042 Measurements of forces, moments, and pressures on a generic store separating from a box cavity at supersonic speeds [NASA-TP-3110] WILL, RALPH W. Software design for automated assembly of truss structures p 43 N92-28375 [NASA-TP-3198] WILLIAMS, R. W. Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 2 (NASA-CP-3163-PT-2) p. p 27 N92-32245 Tenth Workshop for Computational Fluid Dynamic Applications in Rocket Propulsion, part 1 (NASA-CP-3163-PT-1) p 27 N92-32278

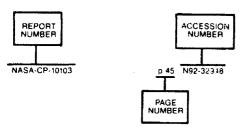
	WASSIES STARKEY F
WILLIAMS, ROBERT L., II	WOODARD, STANLEY E.
Automation and Robotics for Space-Based Systems, 1991	Multidisciplinary optimization of controlled space structures with global sensitivity equations
[NASA-CP-10098] p 43 N92 27763	[NASA-TP-3130] p 18 N92-11087
WILLIAMS, STEVEN P.	WOODIS, KENNETH W.
Effect of short-term exposure to stereoscopic	Second Conference on NDE for Aerospace
three-dimensional flight displays on real-world depth	Requirements
perception	[NASA-CP-3091] p 16 N91-18189
[NASA-TP-3117] p 11 N92-13065	WOOLFORD, BARSARA J.
WILLSHIRE, KELLI F.	The validation of a human force model to predict dynamic
Technology for the Future: in-Space Technology	forces resulting from multi-joint motions
Experiments Program, part 1	[NASA-TP-3206] p 40 N92-26538
[NASA-CP-10073-PT-1] p 14 N91-27177	Correlation and prediction of dynamic human isolated
Technology for the Future: In-Space Technology	joint strength from lean body mass
Experiments Program, part 2	[NASA-TP-3207] p 40 N92-26682
[NASA-CP-10073-PT-2] p 14 N91-27178 WILLSHIRE, WILLIAM L., JR.	WORKMAN, GARY L. Second Conference on NDE for Aerospace
Fourth International Symposium on Long-Range Sound	Second Conference on NDE for Aerospace Requirements
Propagation	[NASA-CP-3091] p 16 N91-18189
[NASA-CP-3101] p 44 N91-16682	WORNOM, STEPHEN F.
WILSON, H. B.	Relative efficiency and accuracy of two Navier-Stokes
Methods of applied dynamics	codes for simulating attached transonic flow over wings
[NASA-RP-1262] p 24 N91-25303	[NASA-TP-3061] p 26 N91-17310
WILSON, JOHN C.	WRIGHT, K. H., JR.
Two-dimensional aerodynamic characteristics of several	Current Collection from Space Plasmas
polygon-shaped cross-sectional models applicable to	(NASA-CP-3089) p 46 N91-17713
helicopter fuselages	WUEBBLES, DONALD J.
[NASA-TP-3233] p 8 N92-30394	The atmospheric effects of stratospheric aircraft: A first
WILSON, JOHN W.	program report
Inclusive inelastic scattering of heavy ions and nuclear	[NASA-RP-1272] p 33 N92-19121
correlations	
(NASA-TP-3026) p 46 N91-13985	Y
Cellular track model of biological damage to mammatian	•
cell cultures from galactic cosmic rays	YOS, JERROLD M.
[NASA-TP-3055] p 50 N91-16981	Calculations and curve fits of thermodynamic and
Improvements in computational accuracy of BRYNTRN	transport properties for equilibrium air to 30000 K
(a baryon transport code) (NASA-TP-3093) p 51 N91-23017	[NASA-RP-1260] p 26 N92-11285
(NASA-TP-3093) p 51 N91-23017 Radiation risk predictions for Space Station Freedom	YOUNG, DOUGLAS C.
orbits	Venturi air-jet vacuum ejectors for high-volume
[NASA-TP-3098] p 51 N91-26107	atmospheric sampling on aircraft platforms
Analyses of risks associated with radiation exposure	[NASA-TP-3183] p 11 N92-20546
from past major solar particle events	YOUNG, RONALD
[NASA-TP-3137] p 50 N91-31061	Evaluation of cloud detection instruments and
Cellular repair/misrepair track model	performance of laminar-flow leading-edge test articles
(NASA-TP-3124) p 42 N92-11685	during NASA Leading-Edge Flight-Test Program
(NASA-TP-3124) p. 42 N92-11685 Benchmark solutions for the galactic heavy-ion transport	during NASA Leading-Edge Flight-Test Program [NASA-TP-2888] p 11 N91-24199
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling	[NASA-TP-2888] p 11 N91-24199
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756	
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space	[NASA-TP-2888] p 11 N91-24199
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations	[NASA-TP-2888] p 11 N91-24199
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956	[NASA-TP-2888] p 11 N91-24199
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space	[NASA-TP-2888] p 11 N91-24199 Z ZACHARY, W. W.
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations	[NASA-TP-2888] p 11 N91-24199 Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p. 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p. 51 N92-15959	[NASA-TP-2888] p 11 N91-24199 Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A.
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple tesion track structure model	[NASA-TP-2888] p 11 N91-24199 Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N/SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p. 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p. 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p. 39 N92-22186	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [Nr.SA-CP-3135] ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p. 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p. 51 N92-15959 Multiple lession track structure model [NASA-TP-3185] p. 39 N92-22166 An efficient HZETRN (a galactic cosmic ray transport	[NASA-TP-2888] p 11 N91-24199 Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code)	[NASA-TP-2888] p 11 N91-24199 Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p. 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p. 51 N92-15959 Multiple lession track structure model [NASA-TP-3185] p. 39 N92-22166 An efficient HZETRN (a galactic cosmic ray transport	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N2-SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p. 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p. 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p. 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p. 51 N92-22218	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N-SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEM A generalized method for multiple robotic manipulator programming applied to vertical-up welding
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p. 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p. 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p. 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p. 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p. 51 N92-22218 Track structure model of cell damage in space flight	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p.46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p.7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p.24 N92-11218
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-1248] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N2-SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A.
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p.46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p.7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p.24 N92-11218
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple leason track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N-SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEM A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRIN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRIN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multipaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3185] p 7 N92-23095 WITCOFSKI, ROBERT D.	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p.46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p.7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p.24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the aerodynamic effects of aircraft ground deicing/anti-icing fluids
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIM-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sicraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple leasion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3255] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N2SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-363] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of aircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple leason track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] with structure model of cell damage in space flight [NASA-TP-3235] with structure tode of cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {N/SA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding {NASA-TP-3163} p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of aircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} p 25 N92-20492
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRIN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRIN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multipaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F.	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N-SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of aircraft ground deicing/anti-icing fluids [NASA-TP-3238] ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] ZUBER, MARIA T.
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTIME F. Microbiology on Space Station Freedom	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 ZUBER, MARIA T. Planetary geosciences, 1989-1990
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-2218 Track structure model of cell damage in space flight [NASA-TP-3255] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTIME F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [N-SA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIN-SABATTOU, SALEM A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of aircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D.
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIM-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Dougles fir/epoxy
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3255] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multisxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple leason track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 WOLF, DAVID A.	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations [NFSA-CP-3135] p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow [NASA-TP-3158] p 7 N92-19175 ZEIM-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids [NASA-TP-3238] p 10 N92-30395 ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution [NASA-TP-3215] p 25 N92-20492 ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Dougles fir/epoxy
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3185] p 51 N92-12218 Track structure model of cell damage in space flight [NASA-TP-3147] p 51 N92-22218 UNASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTIME F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25981 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3148] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple leason track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22186 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom (NASA-CP-3108) p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-1346] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3146] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] with a space flight [NASA-TP-3235] p 39 N92-34154 wing, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 witCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 workshop [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 wol.f. DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space issue culture vessel [NASA-TP-3143] p 24 N92-13340	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-12218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-3108] p 13 N91-24211 WOGAN, CHRISTIME F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3148] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] Experimental measurement of the orbital paths of	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-1346] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3146] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] with a space flight [NASA-TP-3235] p 39 N92-34154 wing, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 witCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 workshop [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 wol.f. DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space issue culture vessel [NASA-TP-3143] p 24 N92-13340	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3225] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25981 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p 24 N92-13340 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-1257] p 51 N92-15959 Multiple leason track structure model [NASA-TP-3146] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-325] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3148] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3148] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p 24 N92-13340 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-3148] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3185] p 51 N92-12218 Track structure model of cell damage in space flight [NASA-TP-3147] p 51 N92-22218 [NASA-TP-3147] p 51 N92-2218 [NASA-TP-3235] p 39 N92-34154 [NASA-TP-3188] p 7 N92-3305 [NASA-TP-3188] p 7 N92-23095 [NASA-TP-3188] p 7 N92-23095 [NASA-TP-3188] p 7 N92-23095 [NASA-TP-3188] p 7 N92-23095 [NASA-TP-3188] p 7 N91-18573 [Nutritional Requirements for Space Station Freedom [NASA-CP-3108] p 37 N91-18573 [Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 [NASA-CP-3148] p 40 N92-25961 [NASA-TP-3143] p 24 N92-13340 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-TP-3146] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-3108] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3148] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p 24 N92-13340 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897 WONG, KAM L.	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-1257] p 51 N92-15959 Multiple leason track structure model [NASA-TP-3148] p 51 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-2218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom (NASA-CP-3108) p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p 24 N92-13340 Experimental measurement of the orbital paths of particles sedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897 WONG, KAM L. Reliability training	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material
Benchmark solutions for the galactic heavy-ion transport equations with energy and spatial coupling [NASA-TP-3112] p 44 N92-13756 Transport methods and interactions for space radiations [NASA-RP-1257] p 51 N92-15956 HZETRN: A heavy ion/nucleon transport code for space radiations [NASA-RP-1257] p 51 N92-15959 Multiple lesion track structure model [NASA-TP-3148] p 51 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3185] p 39 N92-22186 An efficient HZETRN (a galactic cosmic ray transport code) [NASA-TP-3147] p 51 N92-22218 Track structure model of cell damage in space flight [NASA-TP-3235] p 39 N92-34154 WING, DAVID J. Static performance of a cruciform nozzle with multiaxis thrust-vectoring and reverse-thrust capabilities [NASA-TP-3188] p 7 N92-23095 WITCOFSKI, ROBERT D. Advanced Hypervelocity Aerophysics Facility Workshop [NASA-CP-10031] p 13 N91-24211 WOGAN, CHRISTINE F. Microbiology on Space Station Freedom [NASA-CP-3108] p 37 N91-18573 Nutritional Requirements for Space Station Freedom Crews [NASA-CP-3146] p 40 N92-25961 WOLF, DAVID A. Analysis of gravity-induced particle motion and fluid perfusion flow in the NASA-designed rotating zero-head-space tissue culture vessel [NASA-TP-3143] p 24 N92-13340 Experimental measurement of the orbital paths of particles aedimenting within a rotating viscous fluid as influenced by gravity [NASA-TP-3200] p 40 N92-28897 WONG, KAM L. Reliability training [NASA-RP-1253] p 15 N92-32456	Z ZACHARY, W. W. Workshop on Squeezed States and Uncertainty Relations {NFSA-CP-3135} p 46 N92-22045 ZANG, THOMAS A. A weakly nonlinear theory for wave-vortex interactions in curved channel flow {NASA-TP-3158} p 7 N92-19175 ZEIN-SABATTOU, SALEH A generalized method for multiple robotic manipulator programming applied to vertical-up welding [NASA-TP-3163] p 24 N92-11218 ZIERTEN, THOMAS A. Lewis icing research tunnel test of the serodynamic effects of sircraft ground deicing/anti-icing fluids {NASA-TP-3238} ZOLADZ, T. F. Time-frequency representation of a highly nonstationary signal via the modified Wigner distribution {NASA-TP-3215} ZUBER, MARIA T. Planetary geosciences, 1989-1990 [NASA-SP-508] p 50 N92-28345 ZUTECK, MICHAEL D. Structural properties of laminated Douglas fir/epoxy composite material

p 7 N92-20038

speeds [NASA-TP-3105]

The natural flow wing-design concept [NASA-TP-3193] p 7 N92-25202

Typical Report Number Index Listing



Listings in this index are arranged alphanumerically by report number. The page number indicates the page on which the citation is located. The accession number denotes the number by which the citation is identified.

NASA-CP-10028	p 11	N91-24200
NASA-CP-10030	p 19	N91-24307
NASA-CP-10031	p 13	N91-24211
NASA-CP-10038-VOL-1		N91-10839
NASA-CP-10038-VOL-2	•	N91-10868
	•	
NASA-CP-10040		N91-24744
NASA-CP-10042	p 46	N91-11591
NASA-CP-10045	p 5	N91-21062
NASA-CP-10050-PT-1		N91-11682
NASA-CP-10050-PT-2	p 9	N91-11695
NASA-CP-10052	p 42	N91-17559
NASA-CP-10053		N92-22001
NASA-CP-10054	p 9	N91-15141
NASA-CP-10055	p 41	N91-15691
NASA-CP-10056		N91-20147
NASA-CP-10057-PT-1	p 16	N91-18186
NASA-CP-10057-PT-2		N91-19122
NASA-CP-10059		N91-22139
NASA-CP-10060-PT-1	p 9	N91-24166
NASA-CP-10060-PT-2	p 9	N91-24140
NASA-CP-10061-VOL-1	p 43	N91-21778
NASA-CP-10061-VOL-2	p 43	N91-20811
NASA-CP-10062	p 34	N91-21641
NASA-CP-10063	p 12	N91-20086
NASA-CP-10065-PT-1	p 17	N91-22307
NASA-CP-10065-PT-2	p 17	N91-22331
NASA-CP-10066-PT-1	p 17	N91-21188
NASA-CP-10066-PT-2	p 17	N91-21203
NASA-CP-10070	p 15	N92-15082
NASA-CP-10071	p 40	N92-11638
NASA-CP-10072	p 52	N91-24972
NASA-CP-10073-PT-1	o 14	N91-27177
NASA-CP-10073-PT-2	p 14	N91-27178
NASA-CP-10074		N91-27057
NASA-CP-10075		N91-29240
NASA-CP-10077		N92-33478
NASA-CP-10078		N92-25808
NASA-CP-10079	p 20	N92-11088
NASA-CP-10081	p 14	N92-12010
NASA-CP-10083-VOL-1-PT-1		N92-17098
NASA-CP-10083-VOL-1-PT-2	p 18	N92-17409
NASA-CP-10083-VOL-2-PT-1	p 18	N92-17768
NASA-CP-10083-VOL-2-PT-2	p 18	N92-17348
NASA-CP-10084	0 20	N92-10044
NASA-CP-10085-VOL-1		N92-16568
NASA-CP-10085-VOL-2	0 42	N92-16590
NASA-CP-10088	D 27	N92-24514
NASA-CP-10089		N92-25712
NASA-CP-10090	p 20	N92-21517
NASA-CP-10092	p 8	N92-29625
NASA-CP-10093	•	N92-30302
NASA-CP-10094	p 24	N92-28436
NASA-CP-10097	p 52	N92-27218
NASA-CP-10098	p 43	N92-27763
NASA-CP-10099	p 19	N92-28730
141-Gr. Gr. 10098		

NASA-CP-10103	p 45	N92-32948
NASA-CP-3020-VOL-2	p 5	N91-24132
NASA-CP-3036		N91-14897
NASA-CP-3049	p 12	N92-22510
NASA-CP-3051	p 36	N91-10574
NASA-CP-3060	p 20	N91-20207
NASA-CP-3064	p 29	N91-10301
NASA-CP-3078	p 5	N91-21062
NASA-CP-3080	p 27	N91-14574
NASA-CP-3081-VOL-2 NASA-CP-3083	p 11 p 34	N91-17020 N91-10448
NASA-CP-3084	D 49	N91-14100
NASA-CP-3085	p 48	N91-15930
NASA-CP-3086	p 50	N91-12456
NASA-CP-3087-PT-1	p 22	N92-32513
NASA-CP-3087-PT-2	p 22	N92-32574
NASA-CP-3088	p 48	N91-12401
NASA-CP-3089	p 46	N91-17713
NASA-CP-3090 NASA-CP-3091	p 9	N91-10936
	p 16 p 35	N91-18189 N91-16500
NASA-CP-3093	p 36	N91-13842
NASA-CP-3095	p 1	N91-19024
NASA-CP-3096	p 17	N91-19126
NASA-CP-3098	p 49	N91-16858
NASA-CP-3099	p 32	N91-15615
NASA-CP-3100	p 22	N92-21605
NASA-CP-3101	p 44	N91-16682
NASA-CP-3102	p 14	N91-17073
NASA-CP-3103-VOL-1	p 41	N91-20641
NASA-CP-3103-VOL-2 NASA-CP-3105	p 41 p 10	N91-20702 N91-20071
NASA-CP-3105 NASA-CP-3106-VOL-1	p 35	N91-32599
NASA-CP-3106-VOL-2	p 36	N91-32693
NASA-CP-3107	p 19	N91-19182
NASA-CP-3108	p 37	N91-18573
NASA-CP-3109-VOL-1	p 52	N91-23021
NASA-CP-3109-VOL-2	p 52	N91-24041
NASA-CP-3110	p 43	N91-22769
NASA-CP-3111	p 29	N91-20506
NASA-CP-3112-VOL-2	p 19	N91-28193
NASA-CP-3112-VOL-3	p 19 p 19	N91-28235 N91-25176
NASA-CP-3113	p 30	N91-24603
NASA-CP-3114	p 32	N91-32528
NASA-CP-3115-VOL-1	p 32	N91-20541
NASA-CP-3115-VOL-2	p 32	N91-26573
NASA-CP-3116	p 44	N91-25755
NASA-CP-3117	p 48	N91-27009
NASA-CP-3118	p 39	N92-21467
NASA-CP-3119	p 20	N92-27130
NASA-CP-3120	p 35	N91-25556
NASA-CP-3121	p 19 p 28	N91-30203 N92-14346
*****	p 14	N92-14346 N92-14070
NASA-CP-3123	p 16	N92-11039
NASA-CP-3125	p 33	N91-32549
NASA-CP-3126	p 35	N91-32660
NASA-CP-3127-VOL-2	p 41	N92-22324
NASA-CP-3129	p 41	N92-13588
NASA-CP-3130	p 41	N92-12425
NASA-CP-3131	p 3	N92-17984
NASA-CP-3132	p 25	N92-14202
NASA-CP-3134-PT-1	p 52	N92-23280
NASA-CP-3134-PT-2 NASA-CP-3134-PT-3		N92-24806 N92-27083
NASA-CP-3135		N92-22045
NASA-CP-3136-VOL-1		N92-22423
	p 52	
NASA-CP-3136-VOL-2		
NASA-CP-3136-VOL-2 NASA-CP-3137	p 52	N92-22676 N92-21874
NASA-CP-3137 NASA-CP-3138	p 52 p 49 p 52	N92-22676 N92-21874 N92-24987
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140	p 52 p 49 p 52 p 33	N92-22676 N92-21874 N92-24987 N92-22740
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141	p 52 p 49 p 52 p 33 p 43	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142	p 52 p 49 p 52 p 33 p 43 p 31	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356 N92-25911
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3142	p 52 p 49 p 52 p 33 p 43 p 31 p 42	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356 N92-25911 N92-24397
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3143 NASA-CP-3145	p 52 p 49 p 52 p 33 p 43 p 31 p 42 p 30	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356 N92-25911 N92-24397 N92-24324
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3143 NASA-CP-3145 NASA-CP-3145	p 52 p 49 p 52 p 33 p 43 p 31 p 42 p 30 p 40	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356 N92-24397 N92-24397 N92-24324 N92-25961
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3143 NASA-CP-3145 NASA-CP-3146 NASA-CP-3146	p 52 p 49 p 52 p 33 p 43 p 31 p 42 p 30 p 40 p 33	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356 N92-25911 N92-24397 N92-24324 N92-25961 N92-26895
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3143 NASA-CP-3145 NASA-CP-3146 NASA-CP-3147-ADD NASA-CP-3147	p 52 p 49 p 52 p 33 p 43 p 31 p 42 p 30 p 40 p 33 p 30	N92-22676 N92-21874 N92-24987 N92-22740 N92-23356 N92-25911 N92-24397 N92-24324 N92-25961 N92-26895 N92-25067
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3145 NASA-CP-3145 NASA-CP-3146 NASA-CP-3147-ADD NASA-CP-3147 NASA-CP-3147	p 52 p 49 p 52 p 33 p 43 p 31 p 42 p 30 p 40 p 33 p 30 p 15	N92-22676 N92-21874 N92-22987 N92-22740 N92-23956 N92-25911 N92-24397 N92-24324 N92-25961 N92-25067 N92-25067
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3143 NASA-CP-3145 NASA-CP-3146 NASA-CP-3147-ADD NASA-CP-3147 NASA-CP-3147 NASA-CP-3148-VOL-1 NASA-CP-3151	P 52 P 49 P 52 P 33 P 43 P 31 P 42 P 30 P 40 P 33 P 30 P 15 P 24	N92-22676 N92-21874 N92-24987 N92-22740 N92-23556 N92-25911 N92-24397 N92-24324 N92-25961 N92-26895 N92-26895 N92-22660 N92-30263
NASA-CP-3137 NASA-CP-3138 NASA-CP-3140 NASA-CP-3141 NASA-CP-3142 NASA-CP-3145 NASA-CP-3145 NASA-CP-3146 NASA-CP-3147-ADD NASA-CP-3147 NASA-CP-3147	P 52 P 49 P 52 P 33 P 43 P 31 P 42 P 30 P 40 P 33 P 30 P 15 P 24 P 18	N92-22676 N92-21874 N92-22987 N92-22740 N92-23956 N92-25911 N92-24397 N92-24324 N92-25961 N92-25067 N92-25067

NASA-CP-3153	. р3	1 N92-28620
NASA-CP-3158-PT-1	p 2	
NASA-CP-3158-PT-2	р 2	B N92-31013
NASA-CP-3159	. р4	4 N92-33350
NASA-CP-3160	. ρ3	
NASA-CP-3163-PT-1 NASA-CP-3163-PT-2	p 2	
NASA-CP-3172	p 1	
NASA-RP-1014	p 2	1 N91-14437
NASA-RP-1114		0 N91-70436
NASA-RP-1124-REV-2	P 2	
NASA-RP-1236 NASA-RP-1239	. p2	
	р3	
NASA-RP-1244		
NASA-RP-1246 NASA-RP-1248	p 3	
	p 2	
	р 3	
	р3	
NASA-RP-1253	p1	
	р 2	
	р3	
NASA-RP-1258-VOL-1		
NASA-RP-1258-VOL-2	ρ4	5 N92-14779
	p2	
	p 3	
	p3	
	р 3	5 N91-26651
	p3	
	p 4	
	p2	3 N92-20063
NASA-RP-1274 NASA-RP-1275	p2	
	р3	
	р 3	
NASA-RP-1279	р3	6 N92-27 930 2 N92-32127
NASA-RP-1279	р 3	6 N92-27 930 2 N92-32127
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104	p 3 p 1 p 5 p 5	6 N92-27930 2 N92-32127 4 N92-30307 2 N92-28344
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215	p 3	6 N92-27930 2 N92-32127 4 N92-30307 2 N92-28344 2 N91-28080
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306	p 3	6 N92-27930 2 N92-32127 4 N92-30307 2 N92-28344 2 N91-28080 1 N91-15975
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4215 NASA-SP-500 NASA-SP-500	p 3	6 N92-27930 2 N92-32127 4 N92-30307 2 N92-28344 2 N91-28060 1 N91-15975 1 N91-14725 0 N92-28345
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-508 NASA-SP-508	p 3 p 3 p 1 p 5 p 5 p 5 p 4 p 5	6 N92-27930 N92-32127 N92-30307 N92-30307 N91-28080 N91-15975 N91-14725 N92-28345 N91-13347
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-50101(03) NASA-SP-6101(04)	p 3 p 3 p 3 p 5 p 5 p 5 p 4 p 5 p 4	66 N92-27930 2 N92-32127 4 N92-30307 2 N92-28344 2 N91-28060 1 N91-15975 1 N91-14725 0 N92-28345 6 N91-13347 N91-28026
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4215 NASA-SP-500 NASA-SP-500 NASA-SP-508 NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-6101(05) NASA-SP-6101(341)	p 3 p 3 p 1 p 5 p 5 p 5 p 4 p 5 p 4 p 4 p 4	6 N92-27930 N92-32127 N92-30307 2 N92-28344 2 N91-28060 N91-15975 1 N91-14725 0 N92-28345 N91-13347 6 N91-28026 7 N92-27609 7 N91-10594
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4216 NASA-SP-4006 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342)	p 3 p 3 p 5 p 5 p 5 p 4 p 5 p 4 p 5 p 4 p 5 p 5 p 4 p 5 p 5 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7	6 N92-27930 N92-32127 N92-30307 2 N92-28344 2 N91-28060 1 N91-15975 1 N91-14725 N91-13347 6 N91-13347 6 N91-28026 7 N92-27609 7 N91-10594 7 N91-13063
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-6101(05) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(342)	p 3 p 3 p 3 p 5 p 5 p 4 p 5 p 4 p 4 p 4 p 3 p 3	6 N92-27930 N92-32127 N92-30307 N92-30307 2 N92-28344 N91-18080 1 N91-14725 0 N92-28345 N91-13347 6 N91-28026 7 N91-28026 7 N91-28026 7 N91-10594 N91-10594 N91-13063 7 N91-14711
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4105 NASA-SP-4106 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(344)	p 3 p 3 p 5 p 5 p 5 p 4 p 5 p 4 p 5 p 4 p 5 p 5 p 4 p 5 p 5 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7 p 7	6 N92-27930 N92-32127 N92-30307 2 N92-8344 2 N91-28060 1 N91-15975 1 N91-14725 6 N92-28345 6 N91-13347 6 N91-28026 7 N92-27609 7 N91-10594 N91-10594 N91-14711 7 N91-14711
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-6101(04) NASA-SP-6101(34) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(345) NASA-SP-7011(346) NASA-SP-7011(346)	p 3	6 N92-27930 N92-32127 N92-30307 N92-30307 2 N92-28344 2 N91-14725 N91-14725 N91-14725 N91-3347 N91-28026 7 N92-27809 N91-0594 7 N91-13063 7 N91-14711 N91-14712 N91-14712 N91-13700
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-50101(03) NASA-SP-6101(04) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(344) NASA-SP-7011(346) NASA-SP-7011(346) NASA-SP-7011(346) NASA-SP-7011(346)	p 3	6 N92-27930 N92-32127 N92-30307 2 N92-8344 2 N91-28060 1 N91-15975 1 N91-14725 6 N92-28345 6 N91-13347 6 N91-13063 7 N91-10594 7 N91-10594 7 N91-14711 7 N91-14712 7 N91-16547 7 N91-23700
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4215 NASA-SP-4306 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(346) NASA-SP-7011(347) NASA-SP-7011(347) NASA-SP-7011(347) NASA-SP-7011(347)	p 3	6 N92-27930 N92-32127 N92-30307 N92-8344 N91-28060 N91-15975 N91-14725 N91-13047 N91-13063 N91-13063 N91-13063 N91-14711 N91-16547 N91-23700 N91-23701 N91-23701
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-5010(03) NASA-SP-6101(04) NASA-SP-6101(04) NASA-SP-6101(34) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(346) NASA-SP-7011(346) NASA-SP-7011(346) NASA-SP-7011(347) NASA-SP-7011(348) NASA-SP-7011(349) NASA-SP-7011(349) NASA-SP-7011(349) NASA-SP-7011(349) NASA-SP-7011(345)	p 3	6 N92-27930 2 N92-30307 2 N92-30307 2 N92-28344 2 N91-28060 1 N91-15975 1 N91-14725 6 N92-28345 6 N91-13347 6 N91-13047 7 N91-10594 7 N91-14711 7 N91-14711 7 N91-16547 7 N91-23702 7 N91-23700 7 N91-23701 7 N91-23701 7 N91-23701 7 N91-23701 8 N91-25600
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-5010(03) NASA-SP-6101(04) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(344) NASA-SP-7011(345) NASA-SP-7011(346) NASA-SP-7011(350) NASA-SP-7011(351)	p 3	6 N92-27930 N92-32127 N92-30307 2 N92-30307 2 N91-28060 N91-15975 1 N91-14725 6 N91-3347 6 N91-28026 6 N91-28026 7 N91-10594 7 N91-10594 7 N91-10594 7 N91-14711 7 N91-16547 N91-23700 7 N91-23701 7 N91-23701 7 N91-23701 7 N91-23701 7 N91-23701 8 N91-24731 8 N91-2756
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4105 NASA-SP-4206 NASA-SP-500 NASA-SP-500 NASA-SP-500(03) NASA-SP-6101(03) NASA-SP-6101(05) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(344) NASA-SP-7011(345) NASA-SP-7011(346) NASA-SP-7011(347) NASA-SP-7011(348) NASA-SP-7011(349) NASA-SP-7011(351) NASA-SP-7011(351) NASA-SP-7011(352)	p 3	6 N92-27930 N92-32127 N92-30307 2 N91-28060 1 N91-15975 1 N91-14725 6 N91-3347 6 N91-28026 N91-13047 7 N91-13063 7 N91-10594 7 N91-10594 7 N91-16547 7 N91-16547 7 N91-16547 7 N91-23700 7 N91-23700 7 N91-23701 7 N91-23701 8 N91-25600 N91-27756 8 N91-28729
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4215 NASA-SP-4215 NASA-SP-4216 NASA-SP-4306 NASA-SP-4306 NASA-SP-500 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(345) NASA-SP-7011(347) NASA-SP-7011(349) NASA-SP-7011(350) NASA-SP-7011(350) NASA-SP-7011(353) NASA-SP-7011(353) NASA-SP-7011(353)	p 3	6 N92-27930 N92-32127 N92-30307 P92-8344 N91-25975 N91-14725 N91-28345 N91-10594 N91-10594 N91-16547 N91-16547 N91-23700 N91-23701 N91-23702 N91-23701 N91-2
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4105 NASA-SP-4106 NASA-SP-500 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(05) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(344) NASA-SP-7011(345) NASA-SP-7011(346) NASA-SP-7011(347) NASA-SP-7011(348) NASA-SP-7011(349) NASA-SP-7011(349) NASA-SP-7011(351) NASA-SP-7011(351) NASA-SP-7011(352) NASA-SP-7011(353) NASA-SP-7011(353) NASA-SP-7011(355)	p 3	6 N92-27930 N92-32127 N92-30307 2 N91-28060 1 N91-15975 1 N91-14725 6 N91-28026 N91-13047 6 N91-13063 N91-10594 7 N91-10594 7 N91-16547 7 N91-16547 7 N91-23700 7 N91-23700 7 N91-23701 7 N91-23702 7 N91-23702 7 N91-23702 8 N91-23702 8 N91-24731 N91-25600 8 N91-2756 8 N91-28729 8 N91-212404 8 N92-12404
NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4106 NASA-SP-4206 NASA-SP-500 NASA-SP-500 NASA-SP-500(03) NASA-SP-6101(04) NASA-SP-6101(05) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(345) NASA-SP-7011(346) NASA-SP-7011(347) NASA-SP-7011(348) NASA-SP-7011(349) NASA-SP-7011(349) NASA-SP-7011(350) NASA-SP-7011(351) NASA-SP-7011(352) NASA-SP-7011(353) NASA-SP-7011(355) NASA-SP-7011(355) NASA-SP-7011(355) NASA-SP-7011(355) NASA-SP-7011(355)	p 3	6 N92-27930 2 N92-32127
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NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4105 NASA-SP-4106 NASA-SP-406 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-7011(341) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(343) NASA-SP-7011(344) NASA-SP-7011(345) NASA-SP-7011(346) NASA-SP-7011(346) NASA-SP-7011(347) NASA-SP-7011(348) NASA-SP-7011(349) NASA-SP-7011(351) NASA-SP-7011(351) NASA-SP-7011(352) NASA-SP-7011(353) NASA-SP-7011(355) NASA-SP-7011(356) NASA-SP-7011(357) NASA-SP-7011(357) NASA-SP-7011(358) NASA-SP-7011(358) NASA-SP-7011(356) NASA-SP-7037(256) NASA-SP-7037(256) NASA-SP-7037(256) NASA-SP-7037(256)	P3 P3 P3 P5 P5 P5 P5 P5	6 N92-27930 N92-32127 N92-30307 2 N92-3344 N91-15975 1 N91-14725 6 N91-28034 6 N91-13347 6 N91-13347 7 N91-10594 7 N91-10594 7 N91-10594 7 N91-16547 7 N91-16547 7 N91-16547 7 N91-123700 7 N91-23701 7 N91-23701 7 N91-23701 7 N91-23701 8 N91-24731 8 N91-24731 8 N91-24731 8 N91-24731 9 N92-212412 9 N92-21715 9 N92-21714 9 N92-22068 N92-21714 9 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068 N92-27068
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NASA-RP-1279 NASA-RP-1279 NASA-RP-1280 NASA-SP-4104 NASA-SP-4105 NASA-SP-4106 NASA-SP-500 NASA-SP-500 NASA-SP-500 NASA-SP-6101(03) NASA-SP-6101(04) NASA-SP-7011(341) NASA-SP-7011(342) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(344) NASA-SP-7011(347) NASA-SP-7011(348) NASA-SP-7011(349) NASA-SP-7011(349) NASA-SP-7011(351) NASA-SP-7011(351) NASA-SP-7011(352) NASA-SP-7011(352) NASA-SP-7011(353) NASA-SP-7011(353) NASA-SP-7011(355) NASA-SP-7011(355) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(357) NASA-SP-7011(356) NASA-SP-7011(357) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(357) NASA-SP-7011(357) NASA-SP-7011(357) NASA-SP-7011(357) NASA-SP-7011(357) NASA-SP-7011(357) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(356) NASA-SP-7011(361) NASA-SP-7011(361) NASA-SP-7011(361) NASA-SP-7011(262) NASA-SP-7017(262) NASA-SP-7017(262) NASA-SP-7017(262)	p 3	6 N92-27930 2 N92-32127

NASA-SP-7037(265)

NASA-SP-7037(265)	p 2	N91-24095	NASA-TP-3083	p 15	N91-27180
NASA-SP-7037(266)	p 2	N91-27122	NASA-TP-3084	p 29	N91-21556
111 C 4 CM 7007/3671	p 2	N92-10001	NASA-TP-3085	p 5	N91-21059
NASA-SP-7037(268)	p 2	N91-30077	NASA-TP-3086	ρ5	N91-22070
NASA-SP-7037(269)	p 2	N92-10974	NASA-TP-3085 NASA-TP-3087 NASA-TP-3088 NASA-TP-3089 NASA-TP-3090	p 17	N91-22302
NASA-SP-7037(270)	p 2	N92-10973	NASA-TP-3088	p 17	N91-27182
NASA-SP-7037(271)	p 2	N92-14967	NASA-TP-3089	p 43	N91-25741
NASA-SP-7037(272)	р3	N92-21844	NASA-TP-3090	b 58	N91-20503
NASA-SP-7037(273)	р3	N92-21729	NASA-TP-3092	p 5	N91-25103
NASA-SP-7037(275)	p 3	N92-28679	NASA-TP-3093	p 51	N91-23017
NASA-SP-7037(277)		N92-27929	NASA-TP-3094	p 13	N92-10027
NASA-SP-7037(278)	p 3	N92-28677	NASA-TP-3098	p 28	N92-10195
NASA-SP-7037(280)	pЗ	N92-31456	NASA-TP-3098 NASA-TP-3099	p 51	N91-26107
NASA-SP-7039(38)-SECT-1	p 47	N91-17833	NASA-TP-3099	ρ5	N91-27124
NASA-SP-7039(38)-SECT-2	p 47	N91-17834	NASA-TP-3100	p 26	N91-22509
NASA-SP-7039(39)-SECT-1		N91-28042	NASA-TP-3101	p 26	N92-10161
NASA-SP-7039(39)-SECT-2		N91-29088	NASA-TP-3100 NASA-TP-3101 NASA-TP-3102 NASA-TP-3103 NASA-TP-3103	D 21	N32-10067
NASA-SP-7039(40)-SECT-1		N92-22508	NASA-TP-3103	9.0	N92-10975
NASA-SP-7039(40)-SECT-2		N92-27081	NASA-TP-3104	0 40	N92-11758
NASA-SP-7039(41)-SECT-2		N92-31455 N91-13374	NASA-1P-3105	9 /	N92-20038 N91-24542
NASA-SP-7063(D4) NASA-SP-7063(05)	D 47	N91-13374 N91-24939	NASA-TP-3104 NASA-TP-3105 NASA-TP-3107 NASA-TP-3108	p 20	N91-21242
		N91-10804	NASA-1P-3100	D 53	N91-20266
NASA-SP-7064-SUPPL-4		N91-19962	NASA-TP-3109 NASA-TP-3110	y 23	N92-10905
NASA-SP-7064-SUPPL-5		N91-18199	NASA-TP-3111	26	N92-14968
NASA-SP-7085(01)		N91-28191	NACA TO 3112	0.44	N92-13756
NASA-SP-7085(02) NASA-SP-7085(03)	A 18	N92-22317	NASA-TP-3112 NASA-TP-3113	0.6	N91-27140
NASA-SP-7003(03)	0.40	N91-24965	NASA-TP-3114	p 6	N92-12994
NASA-SP-7091 NASA-SP-7092	0 33	N91-30588	NASA TP-3116	D 11	N92-13054
NASA-SP-7097	0 47	N92-22665	NASA-TP-3117	p 11	N92-13065
NASA-SP-7500(25)		N91-24936	NASA-TP-3116 NASA-TP-3117 NASA-TP-3118	p 26	N91-25352
NASA-SP-7500(26)		N92-27080	NASA-TP-3119	p 25	N92-11252
NASA-3P-/300(20/	μ ч.	1102 2 . 200	NASA-TP-3119 NASA-TP-3120 NASA-TP-3122	0.2	N91-26113
NASA-TP-POD-2	n 15	N92-20676	NASA-TP-3122	p 46	N92-10677
TASATIF TOOL	μ.υ		NASA-TP-3123	D 42	N91-25629
NASA-TP-2375	0.3	N91-10007	NASA-TP-3124	0 42	N92-11685
NASA-TP-2640		N91-14316	NASA-TP-3125	p 10	N92-10994
NASA-TP-2852		N92-22863	NASA-TP-3125 NASA-TP-3126	p 30	N92-18053
NASA-TP-2888	p 11	N91-24199	NASA-TP-3128	p 23	N91-29318
NASA-TP-2922		N91-28143	NASA-TP-3130		N92-11087
NASA-TP-2983		N91-17014	NASA-TP-3131		N92-17131
NASA-TP-2995	p 5	N91-19058	NASA-TP-3132	p 7	N92-20494
NASA-TP-2997	p 4	N91-18030	NASA-TP-3133	p 6	N91-30098
NASA-TP-3010	p 29	N91-13750	NASA-TP-3134		N92-11765
NASA-TP-3014	p 15	N92-31251	NASA-TP-3135	p 11	N91-31143
NASA-TP-3015	р 44	N91-12315	NASA-TP-3136		N92-20195
NASA-TP-3020	p 45	N91-19824	NASA-TP-3137		N91-31061
NASA-TP-3022	p 12	N91-10079	NASA-TP-3139		N91-29209
NASA-TP-3025		N91-18031	NASA-TP-3140		N92-11930
NASA-TP-3026		N91-13985	NASA-TP-3141	p 49	N92-11931
NASA-TP-3032		N91-19042	NASA-TP-3142	p6	N91-28136
NASA-TP-3033	p 28	N91-1461B	NASA-TP-3143	p 24	N92-13340
NASA-TP-3034	p 21	N91-13492	NASA-TP-3145	p 30	N92-24205
NASA-TP-3035	p 4	N91-13401	NASA-TP-3146	p 51	N92-15959
NASA-TP-3038	. p 13	N92-31640	NASA-TP-3147	p 51	N92-22218
NASA-TP-3040	p 45	N91-21828	NASA-TP-3150	p 19	N92-25147
NASA-1P-3041	D 10	N91-17114			N92-10981
NASA-TP-3043	p 37	N91-19711	NASA-TP-3152	p 26	N91-30540
NASA-TP-3044	p 22	N91-13522	NASA-TP-3153	p 40	N92-19772 N91-30154
NASA-TP-3045		N91-14323			N91-30318
NASA-TP-3046	p 4	N91-10902	NASA-TP-3155 NASA-TP-3156		N92-10011
NASA-TP-3047		N91-13402 N91-16990	NASA-TP-3150		N92-20677
NASA-TP-3048 NASA-TP-3049	0 4	N91-13461	NASA-TP-3158		N92-19175
NASA-TP-3050	p 13	N91-18032	NASA-TP-3159		N92-17022
NASA-TP-3051	0.12	N91-25151	NASA-TP-3160	p 21	N92-11142
NASA-TP-3052		N91-15499	NASA-TP-3161		N92-12052
NASA-TP-3053		N91-19823			N92-17070
NASA-TP-3054	p 16	N91-11041	NASA-TP-3162 NASA-TP-3163	p 24	N92-11218
NASA-TP-3055		N91-16961	NASA-TP-3164	p 31	N92-26537
NASA-TP-3056		N91-10326	NASA-TP-3164 NASA-TP-3165	p 45	N92-20479
NASA-TP-3057	p 44	N91-16679	NASA-TP-3166	p 13	N92-21410
NASA-TP-3058	p 13	N91-10092	NASA-TP-3167	p 27	N92-24797
NASA-TP-3059	p 14	N91-18180	NASA-TP-3167 NASA-TP-3168	p 7	N92-19002
NASA-TP-3060	. p 5	N91-22069	NASA-TP-3169	p 7	N92-20545
NASA-TP-3061	p 26	N91-17310	NASA-TP-3170	p 27	N92-11299
NASA-TP-3062	. p 19	N91-11800	NASA-TP-3171	p 30	N92-23115
NASA-TP-3063		N91-12956	NASA-TP-3172 NASA-TP-3173	p 7	N92-25133
NASA-TP-3064		N91-18216	NASA-1P-3173	p 21	N92-20679
NASA-TP-3065	. p 19	N91-15308	NASA-TP-3174	p 36	N92-16553
NASA-TP-3066	p 22	N91-17208	NASA-TP-3175 NASA-TP-3176	p 38 p 40	N92-16554 N92-16562
NASA-TP-3067	p 14	N91-20177 N91-16361		p 40	N92-1030£
NASA-TP-3068 NASA-TP-3069	p 20	N91-18753		p 24	N92-13343
NASA-TP-3070	0.5	N91-10753 N91-20043	NASA-TP-3178 NASA-TP-3179	p 22	N92-20950
		N91-18215		p 20	N92-14108
NASA-TP-3071 NASA-TP-3072		N91-20128	NASA-TP-3182	p 39	N92-17645
NASA-TP-3073		N91-22576	NASA-TP-3183	p 11	N92-20546
NASA-TP-3073		N91-22538	NASA-TP-3184	р8	N92-31532
NASA-TP-3075		N91-16413	NASA-TP-3185	p 39	N92-22186
NASA TP-3077		N91-21127	NASA-TP-3186	ρ8	N92-30909
NASA-TP-3078	•	N91-21185	NASA-TP-3187	p 42	N92-22285
NASA-TP-3079	p 50	N91-17999	NASA-TP-3188	p 7	N92-23095
NASA-TP-3080		N91-19057	NASA-TP-3191	ρ 20	N92-17151
NASA-TP-3081	p 25	N91-27436	NASA-TP-3192	p 31	N92-25997
NASA-TP-3082	p 42	N91-25624	NASA-TP-3193	ρ7	N92-25202

NASA-TP-3194	p 7	N92-25276
NASA-TP-3195	p 22	N92-25160
NASA:TP-3196	p 22	N92-23981
NASA TP-3197	p 7	N92-28477
NASA TP-3198	p 43	N92-28375
NASA-TP-3200	p 40	N92-28897
NASA-TP-3201	p 16	N92-19762
NASA-TP-3202	p 9	N92-33656
NASA-TP-3203	p 30	N92-19355
NASA-TP-3204	p 30	N92-22227
NASA TP-3205	p 8	N92-30295
NASA-TP-3206	p 40	N92 26538
NASA-TP-3207	p 40	N92-26682
NASA-TP-3208	p 27	N92-31261
NASA-TP-3209	p 42	N92-27589
NASA-TP-3210	p 30	N92-24546
NASA-TP-3211	p 51	N92-25100
NASA TP-3213	p 24	N92-22235
NASA-TP-3214	p 31	N92-27974
NASA-TP-3215	p 25	N92-20492
NASA-TP-3218	p 24	N92-30378
NASA-TP-3217	p 23	N92-22593
NASA-TP-3218	p 30	N92-21457
NASA-TP-3219	p 10	N92-21459
NASA-TP-3220	p 42	N92-23432
NASA-TP-3221	p 6	N92-33625
NASA-TP-3224	p 22	N92-28374
NASA-TP-3226	p 23	N92-27194
NASA-TP-3227	p 16	N92-26667
NASA-TP-3230-VIDEO-SUPPL	p 36	N92-34246
NASA-TP-3230	p 36	N92-33482
NASA-TP-3231	p 31	N92-31279
NASA-TP-3232	ρB	N92-30747
NASA-TP-3233	p 8	N92-30394
NASA-TP-3234	ρđ	N92-33484
NASA-TP-3235	р 39	N92-34154
NASA-TP-3236	p 9	N92-33706
NASA-TP-3238	p 10	N92-30395
NASA-TP-3239	p 16	N92-33933
NASA-TP-3240	p 9	N92-34193
NASA-TP-3242	p 43	N92-33483
NASA-TP-3248	p 31	N92-26669
NASA-TP-3249	p 24	N92-29677
NASA-TP-3252	рð	N92-28980
NASA-TP-3261	₽8	N92-32480
NASA-TP-3265	p 28	N92-30396
NASA-TP-3272-PT-1A	p 34	N92-32655
NASA-TP-3273	p 31	N92-33476
NASA-TP-3275	p 23	N92-31278
NASA-TP-3277	p 31	N92 31280
NASA-TP-3282	p 25	N92-33601

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